GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: September 13, 2004, 13:00:46 ; Search time 10252 Seconds
(without alignments)
11622.123 Million cell updates/sec

Title: US-10-017-081A-215
Perfect score: 2749
Sequence: 1 ctcccacggtgtccagcgcc.....ctgcataaaaaaaaaaaaaa 2749

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

Database : GenEmbl:*
1: gb_ba:*
2: gb_htg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_sts:*
12: gb_sy:*
13: gb_un:*
14: gb_vi:*
15: em_ba:*
16: em_fun:*
17: em_hum:*
18: em_in:*
19: em_mu:*
20: em_om:*
21: em_or:*
22: em_ov:*
23: em_pat:*
24: em_ph:*
25: em_pl:*
26: em_ro:*
27: em_sts:*
28: em_un:*
29: em_vi:*
30: em_htg_hum:*
31: em_htg_inv:*
32: em_htg_other:*
33: em_htg_mus:*
34: em_htg_pln:*
35: em_htg_rod:*
36: em_htg_mam:*
37: em_htg_vrt:*
38: em_sy:*
39: em_htgo_hum:*
40: em_htgo_mus:*
41: em_htgo_other:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	2747	99.9	2749	6	AR252737	AR252737 Sequence
	2	2747	99.9	2749	6	AX403629	AX403629 Sequence
	3	2747	99.9	2749	6	AX454474	AX454474 Sequence
	4	2747	99.9	2749	6	AX464252	AX464252 Sequence
	5	2747	99.9	2749	6	AX490952	AX490952 Sequence
	6	2747	99.9	2749	9	AY358364	AY358364 Homo sapi
	7	2587.6	94.1	2771	9	BC025395	BC025395 Homo sapi
	8	1679.6	61.1	1987	6	BD242876	BD242876 Secreted
c	9	1671.4	60.8	141704	9	AC007993	AC007993 Homo sapi
c	10	1650.6	60.0	196421	2	AC078837	AC078837 Homo sapi
	11	694.4	25.3	1111	6	AX817149	AX817149 Sequence
	12	394.4	14.3	942	6	AX923505	AX923505 Sequence
	13	394.4	14.3	942	9	AF427620	AF427620 Homo sapi
	14	394.4	14.3	993	6	AX923504	AX923504 Sequence
	15	394.4	14.3	993	9	AF427619	AF427619 Homo sapi
c	16	345.6	12.6	19577	9	AC015937	AC015937 Homo sapi
	17	237.4	8.6	40157	2	AC068215	AC068215 Homo sapi
	18	230.4	8.4	864	10	AY457055	AY457055 Mus muscu
	19	229.4	8.3	197110	9	AC104306	AC104306 Homo sapi
	20	228.4	8.3	108907	9	AL135911	AL135911 Human DNA
c	21	227.6	8.3	100000	9	AP000502	AP000502 Homo sapi
	22	227.6	8.3	153464	9	AL844853	AL844853 Human DNA
	23	227.6	8.3	178460	2	AL139040	AL139040 Homo sapi
	24	227.6	8.3	179894	9	AL662834	AL662834 Human DNA
c	25	227.6	8.3	180283	9	AF134726	AF134726 Homo sapi
	26	227.6	8.3	180559	9	AL645922	AL645922 Human DNA
c	27	227.6	8.3	250762	2	AL662840	AL662840 Homo sapi
c	28	227.2	8.3	137001	9	AP001005	AP001005 Homo sapi
c	29	226.6	8.2	118968	9	HS796F18	AL031291 Human DNA
c	30	226.2	8.2	220206	2	AC140726	AC140726 Homo sapi
c	31	224.8	8.2	147530	9	AC008766	AC008766 Homo sapi
	32	224.8	8.2	166204	2	AC026763	AC026763 Homo sapi
	33	224.6	8.2	108803	9	HS550H1	AL035420 Human DNA
	34	224.4	8.2	170847	2	AL357135	AL357135 Homo sapi
c	35	224.4	8.2	176282	2	AC068507	AC068507 Homo sapi
	36	224.4	8.2	198295	9	AC105129	AC105129 Homo sapi
c	37	223.8	8.1	185311	9	AL355586	AL355586 Human DNA
c	38	223.2	8.1	182267	2	AC021128	AC021128 Homo sapi
c	39	222.8	8.1	95745	9	AL359510	AL359510 Human DNA
	40	222.4	8.1	131398	9	HS445C9	Z95115 Human DNA s
	41	222.2	8.1	120099	9	AC011449	AC011449 Homo sapi
	42	222	8.1	110000	2	AL831785_2	Continuation (3 of
c	43	222	8.1	212382	2	AC010936	AC010936 Homo sapi
c	44	221.8	8.1	182540	2	AC016916	AC016916 Homo sapi
c	45	221.8	8.1	189579	9	AL354733	AL354733 Human DNA
c	46	221.8	8.1	196772	9	AC087392	AC087392 Homo sapi
	47	221.6	8.1	136515	9	AL499609	AL499609 Human DNA
	48	221.6	8.1	145435	2	AC026685	AC026685 Homo sapi
c	49	221.6	8.1	177654	2	AC025988	AC025988 Homo sapi
	50	221	8.0	129316	9	AC130457	AC130457 Homo sapi
	51	221	8.0	169888	2	AC140007	AC140007 Homo sapi
c	52	221	8.0	199287	2	AC068659	AC068659 Homo sapi
c	53	220.8	8.0	77027	9	AL161792	AL161792 Human DNA
	54	220.8	8.0	156592	9	AL135786	AL135786 Human DNA
	55	220.4	8.0	131611	9	AC005099	AC005099 Homo sapi
	56	220.4	8.0	163074	9	AC080013	AC080013 Homo sapi
c	57	220.4	8.0	187987	2	AC009639	AC009639 Homo sapi
	58	220.4	8.0	192780	9	AL162723	AL162723 Human DNA
c	59	220.2	8.0	39531	9	AF024534	AF024534 Homo sapi
	60	220.2	8.0	84912	9	AF024533	AF024533 Homo sapi
c	61	220.2	8.0	129586	9	AC005086	AC005086 Homo sapi
c	62	220.2	8.0	199288	9	AC090950	AC090950 Homo sapi
c	63	220	8.0	100521	9	AC119397	AC119397 Homo sapi
	64	220	8.0	142667	9	AC125387	AC125387 Homo sapi
	65	219.8	8.0	104835	9	AF130418	AF130418 Homo sapi

c 66	219.8	8.0	163022	2	AC011802	AC011802 Homo sapi
c 67	219.8	8.0	177020	2	AC011326	AC011326 Homo sapi
c 68	219.8	8.0	212275	9	AC012076	AC012076 Homo sapi
69	219.8	8.0	340000	9	AP001669	AP001669 Homo sapi
70	219.6	8.0	52468	2	AC022628	AC022628 Homo sapi
71	219.6	8.0	186563	9	AC104452	AC104452 Homo sapi
72	219.6	8.0	186925	2	AC087503	AC087503 Homo sapi
c 73	219.4	8.0	94516	9	AC112126	AC112126 Homo sapi
74	219.4	8.0	97818	2	AC011259	AC011259 Homo sapi
c 75	219.4	8.0	135820	9	AL513497	AL513497 Human DNA
76	219.4	8.0	156795	9	AC105267	AC105267 Homo sapi
c 77	219.4	8.0	158987	9	AC108713	AC108713 Homo sapi
78	219.4	8.0	168863	2	AC146167	AC146167 Pan trogl
79	219.4	8.0	171181	9	AC104190	AC104190 Homo sapi
c 80	219.4	8.0	186959	9	AY191612	AY191612 Pan trogl
c 81	219.4	8.0	215033	2	AL358973	AL358973 Homo sapi
82	219.2	8.0	137432	9	AC073613	AC073613 Homo sapi
c 83	219.2	8.0	176048	9	AC025881	AC025881 Homo sapi
84	219.2	8.0	189430	2	AC011610	AC011610 Homo sapi
c 85	219.2	8.0	195142	9	AC004554	AC004554 Homo sapi
86	219	8.0	94508	9	AC004086	AC004086 Homo sapi
87	219	8.0	119951	2	AC025267	AC025267 Homo sapi
c 88	218.8	8.0	160084	9	AC023395	AC023395 Homo sapi
c 89	218.8	8.0	170311	9	AC021701	AC021701 Homo sapi
90	218.8	8.0	183946	2	AC009164	AC009164 Homo sapi
91	218.8	8.0	198949	9	AC010287	AC010287 Homo sapi
c 92	218.6	8.0	76721	9	AL591024	AL591024 Human DNA
c 93	218.6	8.0	131279	2	AC016441	AC016441 Homo sapi
94	218.6	8.0	132823	9	AL138795	AL138795 Human DNA
c 95	218.6	8.0	159707	2	AL365403	AL365403 Homo sapi
96	218.6	8.0	162978	9	AC021070	AC021070 Homo sapi
c 97	218.6	8.0	210115	9	AL442127	AL442127 Human DNA
c 98	218.4	7.9	59588	6	AX647687	AX647687 Sequence
c 99	218.4	7.9	168247	9	AC005014	AC005014 Homo sapi
c 100	218.4	7.9	170529	9	AB003151	AB003151 Homo sapi
c 101	218.4	7.9	171703	9	AP000688	AP000688 Homo sapi
102	218.4	7.9	182341	2	AC073337	AC073337 Homo sapi
c 103	218.4	7.9	185980	9	AC090610	AC090610 Homo sapi
c 104	218.4	7.9	190506	2	AC068990	AC068990 Homo sapi
105	218.4	7.9	193553	9	AC097634	AC097634 Homo sapi
c 106	218.4	7.9	220579	9	AC130456	AC130456 Homo sapi
c 107	218.4	7.9	220633	9	HUU91321	U91321 Human Chrom
c 108	218.4	7.9	340000	9	AP001724	AP001724 Homo sapi
109	218.2	7.9	49208	9	AL390298	AL390298 Human DNA
110	218.2	7.9	72955	2	AL354832_3	Continuation (4 of
111	218.2	7.9	171902	2	AP000846	AP000846 Homo sapi
112	218.2	7.9	179617	2	AL359033	AL359033 Homo sapi
113	218.2	7.9	186868	2	AC023639	AC023639 Homo sapi
114	218.2	7.9	205638	9	AC090018	AC090018 Homo sapi
c 115	218.2	7.9	280278	2	AL390201	AL390201 Homo sapi
c 116	218	7.9	160915	2	AP001084	AP001084 Homo sapi
c 117	218	7.9	176697	2	AC021170	AC021170 Homo sapi
118	218	7.9	185067	9	AC022382	AC022382 Homo sapi
119	218	7.9	192391	9	AC010768	AC010768 Homo sapi
120	218	7.9	200618	9	AC009061	AC009061 Homo sapi
c 121	218	7.9	209262	2	AC021091	AC021091 Homo sapi
c 122	218	7.9	216264	9	AC099518	AC099518 Homo sapi
123	218	7.9	216911	9	AC018809	AC018809 Homo sapi
124	217.8	7.9	169339	2	AC110008	AC110008 Homo sapi
125	217.8	7.9	176552	9	AC106820	AC106820 Homo sapi
126	217.8	7.9	178010	9	AC098479	AC098479 Homo sapi
127	217.8	7.9	205268	2	AC146518	AC146518 Homo sapi
128	217.6	7.9	56804	9	HS77N19	Z98886 Human DNA s
c 129	217.6	7.9	126141	2	AL356300	AL356300 Homo sapi
c 130	217.6	7.9	146565	2	AL355542	AL355542 Homo sapi
131	217.6	7.9	147543	9	AC068189	AC068189 Homo sapi
132	217.6	7.9	147875	9	AC067982	AC067982 Homo sapi
133	217.6	7.9	161590	9	AC016494	AC016494 Homo sapi
c 134	217.6	7.9	162418	2	AC137066	AC137066 Pan trogl
c 135	217.6	7.9	163801	2	AC025224	AC025224 Homo sapi
c 136	217.6	7.9	164766	2	AC018350	AC018350 Homo sapi
137	217.6	7.9	167127	9	AC097641	AC097641 Homo sapi
138	217.6	7.9	169566	9	AC026470	AC026470 Homo sapi
139	217.6	7.9	177130	9	AC018801	AC018801 Homo sapi
c 140	217.6	7.9	182408	9	HSA535K18	AL078638 Human DNA
141	217.6	7.9	184760	2	AC072024	AC072024 Homo sapi
142	217.6	7.9	191356	9	AC005041	AC005041 Homo sapi
c 143	217.6	7.9	195076	9	AL391357	AL391357 Human DNA
c 144	217.6	7.9	202521	2	AC146953	AC146953 Pongo pyg
c 145	217.6	7.9	204922	2	AL670274	AL670274 Homo sapi
146	217.4	7.9	110000	2	BX324168_3	Continuation (4 of
c 147	217.4	7.9	136312	9	HSJ657D16	AL050343 Human DNA
c 148	217.4	7.9	157657	9	AL353742	AL353742 Human DNA
149	217.2	7.9	9671	9	AL672126	AL672126 Human DNA
150	217.2	7.9	148251	9	AC083867	AC083867 Homo sapi
151	217.2	7.9	149374	2	AC053520	AC053520 Homo sapi
c 152	217.2	7.9	174034	9	AC020908	AC020908 Homo sapi
153	217.2	7.9	175754	9	AC084018	AC084018 Homo sapi
c 154	217.2	7.9	200792	2	AC130782	AC130782 Pan trogl
c 155	217.2	7.9	220173	9	AC012183	AC012183 Homo sapi
c 156	217	7.9	33341	9	AC004750	AC004750 Homo sapi
c 157	217	7.9	39978	9	AC005568	AC005568 Homo sapi
c 158	217	7.9	145481	9	AL356862	AL356862 Human DNA
159	217	7.9	175022	9	AC009171	AC009171 Homo sapi
160	217	7.9	176085	2	AL590309	AL590309 Homo sapi
c 161	217	7.9	179538	2	AC024740	AC024740 Homo sapi
162	216.8	7.9	23434	6	AX705309	AX705309 Sequence
163	216.8	7.9	110000	2	AL390202_04	Continuation (5 of
c 164	216.8	7.9	149188	9	AC114781	AC114781 Homo sapi
c 165	216.8	7.9	149397	9	AC004840	AC004840 Homo sapi
166	216.8	7.9	153825	2	AC016358	AC016358 Homo sapi
c 167	216.8	7.9	155567	9	HS1125A11	AL034549 Human DNA
168	216.8	7.9	157198	9	AC024082	AC024082 Human Chr
169	216.8	7.9	164077	2	AC024398	AC024398 Homo sapi
c 170	216.8	7.9	195995	2	AC079800	AC079800 Homo sapi
c 171	216.8	7.9	199268	2	AC099523	AC099523 Homo sapi
172	216.8	7.9	208989	9	AC027124	AC027124 Homo sapi
c 173	216.6	7.9	57316	9	AL353796	AL353796 Human DNA
c 174	216.6	7.9	173086	2	AL591705	AL591705 Homo sapi
c 175	216.6	7.9	175610	9	AC073176	AC073176 Homo sapi
c 176	216.6	7.9	194067	2	AC146067	AC146067 Pan trogl
c 177	216.6	7.9	198410	2	AP000831	AP000831 Homo sapi
c 178	216.6	7.9	199321	9	AP000941	AP000941 Homo sapi
179	216.4	7.9	110000	9	AF438327_0	AF438327 Homo sapi
180	216.4	7.9	117338	9	HS173D1	AL031984 Human DNA
181	216.4	7.9	161903	2	AC021996	AC021996 Homo sapi
c 182	216.4	7.9	170763	9	AC009196	AC009196 Homo sapi
c 183	216.4	7.9	172660	9	AC136968	AC136968 Pan trogl
184	216.4	7.9	179206	9	CNS01DS6	AL121656 BAC seque
185	216.4	7.9	181773	2	AL365365	AL365365 Homo sapi
186	216.4	7.9	184157	2	AC073438	AC073438 Homo sapi
187	216.4	7.9	198490	2	AC022983	AC022983 Homo sapi
188	216.2	7.9	42104	9	AY206865	AY206865 Homo sapi
189	216.2	7.9	45046	9	AL160000	AL160000 Human DNA
c 190	216.2	7.9	60153	9	AC025574	AC025574 Homo sapi
191	216.2	7.9	108205	9	AL138758	AL138758 Human DNA
192	216.2	7.9	109395	2	AC013742	AC013742 Homo sapi
c 193	216.2	7.9	110000	6	AR397408_0	AR397408 Sequence
194	216.2	7.9	119737	9	HS404G5	AL035695 Human DNA
c 195	216.2	7.9	131708	9	AL354710	AL354710 Human DNA
c 196	216.2	7.9	137843	9	AC138972	AC138972 Homo sapi
c 197	216.2	7.9	157267	9	AC007859	AC007859 Homo sapi
c 198	216.2	7.9	157963	9	AP002986	AP002986 Homo sapi
199	216.2	7.9	161264	9	AC007011	AC007011 Homo sapi
200	216.2	7.9	162475	9	AC146163	AC146163 Pan trogl
c 201	216.2	7.9	170203	2	AL714002	AL714002 Homo sapi
c 202	216.2	7.9	181112	2	AL360012	AL360012 Homo sapi
203	216.2	7.9	194624	9	AC008742	AC008742 Homo sapi
c 204	216.2	7.9	194880	2	AC091929	AC091929 Homo sapi
205	216.2	7.9	202566	9	AC022031	AC022031 Homo sapi
c 206	216.2	7.9	349980	6	AX232503	AX232503 Sequence
c 207	216.2	7.9	349980	6	AX453703	AX453703 Sequence
208	216	7.9	3240	9	AK125312	AK125312 Homo sapi
209	216	7.9	37650	9	HSU131B10	Z73417 Human DNA s
c 210	216	7.9	124497	9	AC120053	AC120053 Homo sapi
211	216	7.9	129010	9	AL159168	AL159168 Human DNA

c 212	216	7.9	167344	9	CNS01DSD	AL121769 Human chr
213	216	7.9	169891	9	AC020907	AC020907 Homo sapi
214	216	7.9	174424	6	AX335950	AX335950 Sequence
c 215	216	7.9	175127	2	AC016048	AC016048 Homo sapi
c 216	216	7.9	177787	9	AC133961	AC133961 Homo sapi
217	216	7.9	181343	9	U52112	U52112 Homo sapien
218	216	7.9	182799	2	AC073526	AC073526 Homo sapi
c 219	216	7.9	187833	9	AL513303	AL513303 Human DNA
c 220	216	7.9	215313	9	AC100791	AC100791 Homo sapi
c 221	216	7.9	217409	9	AC123901	AC123901 Homo sapi
c 222	215.8	7.9	17590	6	BD250946	BD250946 Nucleic a
223	215.8	7.9	33602	9	U73643	U73643 Human Chrom
224	215.8	7.9	43467	9	AC000086	AC000086 Homo sapi
225	215.8	7.9	64810	9	AL391535	AL391535 Human DNA
226	215.8	7.9	108879	9	AC004804	AC004804 Homo sapi
227	215.8	7.9	113851	2	AP000571	AP000571 Homo sapi
228	215.8	7.9	115664	2	AC010324	AC010324 Homo sapi
c 229	215.8	7.9	129090	2	AC083961	AC083961 Homo sapi
c 230	215.8	7.9	131259	2	AP001805	AP001805 Homo sapi
c 231	215.8	7.9	163924	2	AL162592	AL162592 Homo sapi
232	215.8	7.9	166336	9	AL445467	AL445467 Human DNA
233	215.8	7.9	167319	9	AL354798	AL354798 Human DNA
c 234	215.8	7.9	176577	9	AL157831	AL157831 Human DNA
235	215.8	7.9	184040	2	AC011877	AC011877 Homo sapi
236	215.8	7.9	184349	9	AC046176	AC046176 Homo sapi
237	215.8	7.9	189412	2	AC023532	AC023532 Homo sapi
c 238	215.8	7.9	195108	9	AC021106	AC021106 Homo sapi
c 239	215.8	7.9	200822	9	AL591806	AL591806 Human DNA
240	215.8	7.9	205152	9	AP002985	AP002985 Homo sapi
241	215.6	7.8	78539	9	HSJ647M16	AL049653 Human DNA
242	215.6	7.8	106499	9	AC023271	AC023271 Homo sapi
c 243	215.6	7.8	146610	9	AL139395	AL139395 Human DNA
c 244	215.6	7.8	158434	9	AL500527	AL500527 Human DNA
245	215.6	7.8	166372	9	AL353705	AL353705 Human DNA
246	215.6	7.8	171175	9	AC135507	AC135507 Homo sapi
247	215.6	7.8	172800	2	AL356597	AL356597 Homo sapi
c 248	215.6	7.8	173738	2	AC147314	AC147314 Pan trogl
c 249	215.6	7.8	187960	9	AP000866	AP000866 Homo sapi
c 250	215.6	7.8	189671	2	AC067848	AC067848 Homo sapi
251	215.6	7.8	195433	9	AC026778	AC026778 Homo sapi
c 252	215.6	7.8	195773	2	AC073134	AC073134 Homo sapi
253	215.4	7.8	20975	9	AL713892	AL713892 Human DNA
c 254	215.4	7.8	36229	9	AC004799	AC004799 Homo sapi
255	215.4	7.8	37680	2	AL359985	AL359985 Homo sapi
256	215.4	7.8	106497	9	AL157934	AL157934 Human DNA
257	215.4	7.8	126614	9	AL583822	AL583822 Human DNA
258	215.4	7.8	141003	9	AC078778	AC078778 Homo sapi
c 259	215.4	7.8	146158	9	AL136136	AL136136 Human DNA
260	215.4	7.8	149490	9	AC130455	AC130455 Homo sapi
c 261	215.4	7.8	150129	2	AC023816	AC023816 Homo sapi
262	215.4	7.8	162907	2	AC027499	AC027499 Homo sapi
c 263	215.4	7.8	164180	9	AC016725	AC016725 Homo sapi
264	215.4	7.8	175771	2	AC146189	AC146189 Pan trogl
c 265	215.4	7.8	176291	2	AC023583	AC023583 Homo sapi
266	215.4	7.8	176541	9	AL929325	AL929325 Human DNA
c 267	215.4	7.8	193775	9	AC004801	AC004801 Homo sapi
c 268	215.4	7.8	197019	9	AL157938	AL157938 Human DNA
c 269	215.4	7.8	210688	2	AC139257	AC139257 Homo sapi
270	215.4	7.8	212387	9	AC140504	AC140504 Homo sapi
271	215.4	7.8	214965	2	AL357493	AL357493 Homo sapi
c 272	215.4	7.8	226841	2	HSAC002043	AC002043 Homo sapi
273	215.2	7.8	80142	9	AL645465	AL645465 Human DNA
274	215.2	7.8	86999	9	AC124947	AC124947 Homo sapi
275	215.2	7.8	110939	9	CNS01DSW	AL122021 Human chr
c 276	215.2	7.8	112479	9	AP002336	AP002336 Homo sapi
277	215.2	7.8	115602	2	AC146390	AC146390 Pan trogl
c 278	215.2	7.8	129272	9	AL451125	AL451125 Human DNA
279	215.2	7.8	143306	6	AX411767	AX411767 Sequence
280	215.2	7.8	145101	2	AC021775	AC021775 Homo sapi
c 281	215.2	7.8	153539	2	AL591168	AL591168 Homo sapi
282	215.2	7.8	157226	9	AC018902	AC018902 Homo sapi
c 283	215.2	7.8	159506	9	HS34I8	AL021918 Human DNA
c 284	215.2	7.8	166000	9	AC090509	AC090509 Homo sapi
c 285	215.2	7.8	167386	2	AL159993	AL159993 Homo sapi
c 286	215.2	7.8	171133	9	AC103846	AC103846 Homo sapi
287	215.2	7.8	173738	2	AC147314	AC147314 Pan trogl
c 288	215.2	7.8	177076	9	AP000487	AP000487 Homo sapi
289	215.2	7.8	177626	9	AC090005	AC090005 Homo sapi
290	215.2	7.8	181394	9	AC090951	AC090951 Homo sapi
c 291	215.2	7.8	183607	9	AC066597	AC066597 Homo sapi
c 292	215.2	7.8	188270	9	AC104393	AC104393 Homo sapi
c 293	215.2	7.8	191090	2	AP000927	AP000927 Homo sapi
294	215.2	7.8	191780	2	AC146696	AC146696 Pan trogl
c 295	215.2	7.8	197224	9	CNS01DUM	AL133279 Human chr
296	215.2	7.8	201400	2	AL929539	AL929539 Homo sapi
297	215.2	7.8	210833	2	AC018566	AC018566 Homo sapi
c 298	215.2	7.8	217456	9	AC068319	AC068319 Homo sapi
299	215.2	7.8	233304	2	AC146694	AC146694 Pan trogl
c 300	215	7.8	43577	9	AC090670	AC090670 Homo sapi
c 301	215	7.8	98876	9	AC009488	AC009488 Homo sapi
302	215	7.8	100921	9	AC004996	AC004996 Homo sapi
303	215	7.8	101083	2	AC139010	AC139010 Homo sapi
c 304	215	7.8	110580	9	AP000446	AP000446 Homo sapi
c 305	215	7.8	112638	9	HSJ329L24	AL132874 Human DNA
306	215	7.8	119378	9	AL449323	AL449323 Human DNA
c 307	215	7.8	122146	9	AC011736	AC011736 Homo sapi
c 308	215	7.8	123019	9	AC111006	AC111006 Homo sapi
c 309	215	7.8	131753	9	AL358790	AL358790 Human DNA
310	215	7.8	133218	9	AC008410	AC008410 Homo sapi
c 311	215	7.8	155645	2	AC021153	AC021153 Homo sapi
c 312	215	7.8	156589	9	HS537K23	AL034405 Human DNA
313	215	7.8	159681	2	AC036239	AC036239 Homo sapi
c 314	215	7.8	160446	2	AC145952	AC145952 Pan trogl
c 315	215	7.8	162691	2	AC013523	AC013523 Homo sapi
316	215	7.8	163338	9	AL162426	AL162426 Human DNA
c 317	215	7.8	166995	2	AC022631	AC022631 Homo sapi
318	215	7.8	170371	9	AP001132	AP001132 Homo sapi
319	215	7.8	172588	2	AC007430	AC007430 Homo sapi
c 320	215	7.8	173758	9	AC009144	AC009144 Homo sapi
321	215	7.8	175967	9	AC010834	AC010834 Homo sapi
c 322	215	7.8	193787	2	AP000774	AP000774 Homo sapi
323	215	7.8	196852	9	AC084866	AC084866 Homo sapi
324	215	7.8	197817	2	AP001185	AP001185 Homo sapi
325	215	7.8	227968	9	AF053356	AF053356 Homo sapi
326	215	7.8	289889	2	AC143065	AC143065 Macaca mu
327	214.8	7.8	22481	6	AR178466	AR178466 Sequence
328	214.8	7.8	22484	6	AX410695	AX410695 Sequence
329	214.8	7.8	22484	9	HSU29953	U29953 Human pigme
330	214.8	7.8	101010	9	HS445N2	AL031779 Human DNA
331	214.8	7.8	146101	9	AC009720	AC009720 Homo sapi
332	214.8	7.8	147634	9	AC055740	AC055740 Homo sapi
333	214.8	7.8	159691	9	AC025160	AC025160 Homo sapi
334	214.8	7.8	160114	2	AC023073	AC023073 Homo sapi
c 335	214.8	7.8	163157	9	AC108670	AC108670 Homo sapi
336	214.8	7.8	164885	2	AC126227	AC126227 Papio anu
c 337	214.8	7.8	166138	9	AC099684	AC099684 Homo sapi
c 338	214.8	7.8	172945	9	AC007220	AC007220 Homo sapi
c 339	214.8	7.8	177582	9	AC093834	AC093834 Homo sapi
340	214.8	7.8	179380	9	AL355501	AL355501 Human DNA
341	214.8	7.8	179604	9	AC112128	AC112128 Homo sapi
342	214.8	7.8	180333	2	AC021695	AC021695 Homo sapi
c 343	214.8	7.8	188552	9	AC009994	AC009994 Homo sapi
c 344	214.8	7.8	190202	9	AC022021	AC022021 Homo sapi
c 345	214.8	7.8	190982	2	AC025285	AC025285 Homo sapi
346	214.8	7.8	200791	2	AC125507	AC125507 Papio anu
347	214.8	7.8	206587	9	AL138898	AL138898 Human DNA
348	214.8	7.8	217253	9	AC130343	AC130343 Homo sapi
c 349	214.8	7.8	321519	2	AL714004	AL714004 Homo sapi
350	214.6	7.8	12253	9	AL450285	AL450285 Human DNA
351	214.6	7.8	14581	6	AR231237	AR231237 Sequence
c 352	214.6	7.8	17222	9	AF540377	AF540377 Homo sapi
c 353	214.6	7.8	113754	9	HSJ342K12	AL121918 Human DNA
354	214.6	7.8	148689	9	AC093168	AC093168 Homo sapi
355	214.6	7.8	152037	9	HS167A19	AL031427 Human DNA
c 356	214.6	7.8	168528	9	AL355861	AL355861 Human DNA
c 357	214.6	7.8	171058	9	AC073068	AC073068 Homo sapi

	358	214.6	7.8	171941	9	AL365274 AL365274 Human DNA
c	359	214.6	7.8	176181	9	AC008155 AC008155 Homo sapi
c	360	214.6	7.8	185209	2	AL390314 AL390314 Homo sapi
	361	214.6	7.8	200426	9	AC093117 AC093117 Homo sapi
	362	214.6	7.8	201716	9	AC009141 AC009141 Homo sapi
	363	214.4	7.8	61713	9	AL606763 AL606763 Human DNA
c	364	214.4	7.8	74671	9	AL449106 AL449106 Human DNA
	365	214.4	7.8	110000	2	AC130427_1 Continuation (2 of
	366	214.4	7.8	126502	9	AC100788 AC100788 Homo sapi
	367	214.4	7.8	132492	9	AC007616 AC007616 Homo sapi
c	368	214.4	7.8	157152	9	AC073427 AC073427 Homo sapi
	369	214.4	7.8	157989	2	AC141591 AC141591 Homo sapi
	370	214.4	7.8	161103	9	AL392163 AL392163 Human DNA
	371	214.4	7.8	161397	2	AC090218 AC090218 Homo sapi
c	372	214.4	7.8	163027	9	AC002549 AC002549 Homo sapi
c	373	214.4	7.8	166299	9	AC092178 AC092178 Homo sapi
c	374	214.4	7.8	170540	2	AC092707 AC092707 Homo sapi
	375	214.4	7.8	171985	9	AL445675 AL445675 Human DNA
c	376	214.4	7.8	179006	9	AL136365 AL136365 Human DNA
c	377	214.4	7.8	184675	9	AC145964 AC145964 Pan trogl
c	378	214.4	7.8	185545	2	AC013698 AC013698 Homo sapi
c	379	214.4	7.8	189363	9	AC126603 AC126603 Homo sapi
c	380	214.4	7.8	190306	2	AC146080 AC146080 Pan trogl
c	381	214.4	7.8	190735	2	AC026084 AC026084 Homo sapi
	382	214.4	7.8	191866	2	AC068676 AC068676 Homo sapi
c	383	214.4	7.8	199992	2	AC021522 AC021522 Homo sapi
	384	214.4	7.8	206665	2	AC092872 AC092872 Pan trogl
c	385	214.4	7.8	209109	9	AC116025 AC116025 Homo sapi
c	386	214.2	7.8	36339	9	HSB33B7 Z82176 Human DNA s
c	387	214.2	7.8	45276	9	AL512654 AL512654 Human DNA
	388	214.2	7.8	50217	9	AL356652 AL356652 Human DNA
c	389	214.2	7.8	61228	9	AC106706 AC106706 Homo sapi
c	390	214.2	7.8	63684	9	AL357564 AL357564 Human DNA
	391	214.2	7.8	64792	9	AL390028 AL390028 Human DNA
	392	214.2	7.8	112748	9	AC007242 AC007242 Homo sapi
	393	214.2	7.8	120070	9	AC092929 AC092929 Homo sapi
c	394	214.2	7.8	126846	9	AL359375 AL359375 Human DNA
	395	214.2	7.8	127905	9	AL513550 AL513550 Human DNA
c	396	214.2	7.8	128618	9	AC011485 AC011485 Homo sapi
	397	214.2	7.8	142085	9	AL359707 AL359707 Human DNA
c	398	214.2	7.8	154375	2	AC145837 AC145837 Pan trogl
c	399	214.2	7.8	157145	2	AC146323 AC146323 Pan trogl
	400	214.2	7.8	158990	2	AL591702 AL591702 Homo sapi
c	401	214.2	7.8	165902	9	AC106763 AC106763 Homo sapi
c	402	214.2	7.8	168169	2	AC145953 AC145953 Pan trogl
	403	214.2	7.8	181074	2	AC146626 AC146626 Papio anu
	404	214.2	7.8	184730	2	AC146676 AC146676 Papio anu
c	405	214.2	7.8	185954	2	AC021975 AC021975 Homo sapi
c	406	214.2	7.8	187360	9	AC021105 AC021105 Homo sapi
c	407	214.2	7.8	193132	2	AC025743 AC025743 Homo sapi
c	408	214.2	7.8	199670	9	AC142303 AC142303 Pan trogl
c	409	214.2	7.8	200237	9	AF168787 AF168787 Homo sapi
c	410	214	7.8	56641	2	AL138833 AL138833 Homo sapi
c	411	214	7.8	63262	9	AL138968 AL138968 Human DNA
c	412	214	7.8	111998	9	AC011509 AC011509 Homo sapi
	413	214	7.8	112067	9	AC008894 AC008894 Homo sapi
c	414	214	7.8	126876	9	HSDJ34M23 AL121988 Human DNA
c	415	214	7.8	129261	2	AC068247 AC068247 Homo sapi
	416	214	7.8	133289	9	AC012317 AC012317 Homo sapi
c	417	214	7.8	134105	9	AL603910 AL603910 Human DNA
	418	214	7.8	138538	9	AC011445 AC011445 Homo sapi
c	419	214	7.8	143039	9	AC016559 AC016559 Homo sapi
c	420	214	7.8	150791	9	AL162458 AL162458 Human DNA
	421	214	7.8	157477	9	AC007606 AC007606 Homo sapi
	422	214	7.8	166743	9	AP003357 AP003357 Homo sapi
	423	214	7.8	168110	9	HSA247I13 AL096701 Human DNA
c	424	214	7.8	171747	9	AP001554 AP001554 Homo sapi
c	425	214	7.8	177047	9	AC073082 AC073082 Homo sapi
c	426	214	7.8	184926	9	AP000757 AP000757 Homo sapi
	427	214	7.8	190225	2	AC011191 AC011191 Homo sapi
c	428	214	7.8	192944	2	AC146902 AC146902 Callicebu
	429	214	7.8	198052	9	AC019205 AC019205 Homo sapi
c	430	214	7.8	206463	2	AP000834 AP000834 Homo sapi
	431	213.8	7.8	6849	9	S76771 S76771 TPO=thrombo
	432	213.8	7.8	28452	9	HUMBMYH7 M57965 Homo sapien
	433	213.8	7.8	99545	9	AC026115 AC026115 Homo sapi
	434	213.8	7.8	110000	2	AL929091_10 Continuation (11 o
	435	213.8	7.8	117853	9	AC007030 AC007030 Homo sapi
c	436	213.8	7.8	120125	2	AF301505 AF301505 Homo sapi
c	437	213.8	7.8	122381	9	AP000577 AP000577 Homo sapi
	438	213.8	7.8	123284	2	HSJ998N21 AL109948 Homo sapi
	439	213.8	7.8	128440	2	AC002419 AC002419 Homo sapi
	440	213.8	7.8	133525	9	AL713999 AL713999 Human DNA
	441	213.8	7.8	148405	9	AP003354 AP003354 Homo sapi
	442	213.8	7.8	151449	9	AC093152 AC093152 Homo sapi
c	443	213.8	7.8	157910	9	CNS01DTR AL132855 Human chr
c	444	213.8	7.8	159593	9	AC004832 AC004832 Homo sapi
c	445	213.8	7.8	161706	2	AC021194 AC021194 Homo sapi
c	446	213.8	7.8	162170	2	AC068345 AC068345 Homo sapi
c	447	213.8	7.8	166704	9	AC078797 AC078797 Homo sapi
	448	213.8	7.8	174988	2	AL928903 AL928903 Homo sapi
c	449	213.8	7.8	175747	9	AP001085 AP001085 Homo sapi
c	450	213.8	7.8	176393	9	AC051654 AC051654 Homo sapi
c	451	213.8	7.8	182955	9	AL445237 AL445237 Human DNA
c	452	213.8	7.8	185378	9	AC118754 AC118754 Homo sapi
c	453	213.8	7.8	186248	2	AC026021 AC026021 Homo sapi
c	454	213.8	7.8	190466	2	AC022285 AC022285 Homo sapi
c	455	213.8	7.8	195494	9	AC091153 AC091153 Homo sapi
c	456	213.8	7.8	199463	2	AC129497 AC129497 Homo sapi
	457	213.8	7.8	201305	2	AC117437 AC117437 Homo sapi
c	458	213.8	7.8	216497	9	HSDJ37C10 AL049569 Human DNA
	459	213.6	7.8	6743	9	HSNADGLCT X82877 H.sapiens N
	460	213.6	7.8	38196	9	AY220757 AY220757 Homo sapi
c	461	213.6	7.8	69794	2	AC130682 AC130682 Homo sapi
	462	213.6	7.8	111344	9	AL139403 AL139403 Human DNA
	463	213.6	7.8	120773	9	AL139322 AL139322 Human DNA
	464	213.6	7.8	128036	2	AC025071 AC025071 Homo sapi
	465	213.6	7.8	130077	9	AL353643 AL353643 Human DNA
c	466	213.6	7.8	133218	9	AC008410 AC008410 Homo sapi
	467	213.6	7.8	140073	9	CNS01DTO AL132819 Human chr
c	468	213.6	7.8	143409	2	AP001787 AP001787 Homo sapi
	469	213.6	7.8	145148	9	AC079915 AC079915 Homo sapi
	470	213.6	7.8	146370	2	AC006595 AC006595 Homo sapi
c	471	213.6	7.8	151478	9	AL445071 AL445071 Human DNA
c	472	213.6	7.8	157073	9	AC005027 AC005027 Homo sapi
c	473	213.6	7.8	157375	2	AC025747 AC025747 Homo sapi
	474	213.6	7.8	157841	2	AC125423 AC125423 Homo sapi
	475	213.6	7.8	157860	9	AL391241 AL391241 Human DNA
	476	213.6	7.8	170399	9	HSDJ680D5 AL121992 Human DNA
c	477	213.6	7.8	177901	9	AC011893 AC011893 Homo sapi
	478	213.6	7.8	179836	9	AL590822 AL590822 Human DNA
c	479	213.6	7.8	181432	2	AC140960 AC140960 Papio anu
	480	213.6	7.8	184039	9	CNS018OX AL109767 Human chr
c	481	213.6	7.8	198253	9	AC009090 AC009090 Homo sapi
c	482	213.6	7.8	199656	9	AC032044 AC032044 Homo sapi
	483	213.6	7.8	213432	2	AC068198 AC068198 Homo sapi
c	484	213.6	7.8	217521	9	AC023825 AC023825 Homo sapi
c	485	213.6	7.8	228098	9	AL596247 AL596247 Human DNA
	486	213.4	7.8	31874	9	HSBA444G7 AL117330 Human DNA
	487	213.4	7.8	64695	9	AC140062 AC140062 Homo sapi
c	488	213.4	7.8	84997	9	AL583832 AL583832 Human DNA
	489	213.4	7.8	109296	9	AC083949 AC083949 Homo sapi
c	490	213.4	7.8	119951	2	AC025267 AC025267 Homo sapi
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c	492	213.4	7.8	127145	9	HS1119A7 AL022313 Human DNA
c	493	213.4	7.8	141759	9	AC006209 AC006209 Homo sapi
c	494	213.4	7.8	144766	2	AC073209 AC073209 Homo sapi
c	495	213.4	7.8	145456	9	AL513366 AL513366 Human DNA
	496	213.4	7.8	149383	9	AC103727 AC103727 Homo sapi
c	497	213.4	7.8	153452	2	AC044895 AC044895 Homo sapi
c	498	213.4	7.8	158467	2	AC011314 AC011314 Homo sapi
c	499	213.4	7.8	159840	2	AP000869 AP000869 Homo sapi
c	500	213.4	7.8	160754	9	AC006213 AC006213 Homo sapi
c	501	213.4	7.8	161034	2	AL359927 AL359927 Homo sapi
	502	213.4	7.8	173375	2	AC044815 AC044815 Homo sapi
	503	213.4	7.8	176522	2	AC018373 AC018373 Homo sapi

c 504	213.4	7.8	180049	9	AC099558	AC099558	Homo sapi
c 505	213.4	7.8	185000	2	AC007799	AC007799	Homo sapi
506	213.4	7.8	186504	9	AC006040	AC006040	Homo sapi
507	213.4	7.8	190708	9	AC005261	AC005261	Homo sapi
508	213.4	7.8	198521	2	AC145723	AC145723	Homo sapi
509	213.4	7.8	199268	2	AC099523	AC099523	Homo sapi
c 510	213.4	7.8	199621	2	AC146278	AC146278	Pan trogl
511	213.4	7.8	209859	9	AC084083	AC084083	Homo sapi
c 512	213.4	7.8	209870	9	AC104431	AC104431	Homo sapi
513	213.4	7.8	216264	9	AC099518	AC099518	Homo sapi
514	213.4	7.8	219935	9	AC005015	AC005015	Homo sapi
c 515	213.4	7.8	231160	2	AC135717	AC135717	Homo sapi
516	213.2	7.8	4039	9	AB030001	AB030001	Homo sapi
c 517	213.2	7.8	74822	2	AC136359	AC136359	Homo sapi
c 518	213.2	7.8	75022	9	AF452638	AF452638	Homo sapi
519	213.2	7.8	78947	9	AL136126	AL136126	Human DNA
c 520	213.2	7.8	87636	9	AL139039	AL139039	Human DNA
c 521	213.2	7.8	88883	9	AC107911	AC107911	Homo sapi
c 522	213.2	7.8	99957	6	AX695923	AX695923	Sequence
c 523	213.2	7.8	100167	9	HSJ189G13	AL121916	Human DNA
524	213.2	7.8	103277	2	AC087824	AC087824	Homo sapi
525	213.2	7.8	104435	9	AC016292	AC016292	Homo sapi
c 526	213.2	7.8	105692	2	AP000618	AP000618	Homo sapi
527	213.2	7.8	108633	2	AL133518	AL133518	Homo sapi
c 528	213.2	7.8	114791	9	HSDJ850E9	AL121758	Human DNA
c 529	213.2	7.8	115515	9	HSJ1056H1	AL118505	Human DNA
530	213.2	7.8	118684	9	AC025335	AC025335	Homo sapi
c 531	213.2	7.8	121017	9	AC087388	AC087388	Homo sapi
c 532	213.2	7.8	122280	9	AC004847	AC004847	Homo sapi
533	213.2	7.8	137248	9	AC019051	AC019051	Homo sapi
534	213.2	7.8	137693	9	AC003689	AC003689	Homo sapi
535	213.2	7.8	142179	9	AL355526	AL355526	Human DNA
c 536	213.2	7.8	146515	2	AC146981	AC146981	Homo sapi
c 537	213.2	7.8	146548	2	AC023858	AC023858	Homo sapi
c 538	213.2	7.8	146746	9	HS50J22	Z84484	Human DNA s
539	213.2	7.8	146989	2	AC015598	AC015598	Homo sapi
540	213.2	7.8	153026	9	AL391280	AL391280	Human DNA
541	213.2	7.8	156949	9	AL161652	AL161652	Human DNA
542	213.2	7.8	163108	2	AC016741	AC016741	Homo sapi
c 543	213.2	7.8	165510	2	AC022677	AC022677	Homo sapi
544	213.2	7.8	166941	2	AC008049	AC008049	Homo sapi
545	213.2	7.8	172052	9	AL157769	AL157769	Human DNA
546	213.2	7.8	176544	2	AL138877	AL138877	Homo sapi
547	213.2	7.8	177402	9	AC007406	AC007406	Homo sapi
548	213.2	7.8	179568	9	AC131263	AC131263	Homo sapi
549	213.2	7.8	187157	9	AL139384	AL139384	Human DNA
c 550	213.2	7.8	189406	9	AC112717	AC112717	Homo sapi
551	213.2	7.8	190856	2	AC024505	AC024505	Homo sapi
c 552	213.2	7.8	194377	2	AC021726	AC021726	Homo sapi
553	213.2	7.8	195370	2	AL390063	AL390063	Homo sapi
c 554	213	7.7	13865	6	AR112952	AR112952	Sequence
c 555	213	7.7	13865	6	AR112968	AR112968	Sequence
c 556	213	7.7	13865	6	BD194673	BD194673	Tissue fa
c 557	213	7.7	13865	9	HUMTFPB	J02846	Human tissu
558	213	7.7	60500	9	AC131238	AC131238	Homo sapi
c 559	213	7.7	72147	2	AC124801	AC124801	Homo sapi
c 560	213	7.7	76540	9	AC003678	AC003678	Homo sapi
c 561	213	7.7	77878	2	AC126362	AC126362	Homo sapi
562	213	7.7	91200	9	AP001152	AP001152	Homo sapi
c 563	213	7.7	93399	9	AL161937	AL161937	Human DNA
564	213	7.7	94121	9	HSJ1153D9	AL109806	Human DNA
565	213	7.7	99183	9	AL360091	AL360091	Human DNA
c 566	213	7.7	101319	9	AL392109	AL392109	Human DNA
c 567	213	7.7	121129	9	AL357315	AL357315	Human DNA
568	213	7.7	123192	2	AP000589	AP000589	Homo sapi
569	213	7.7	129758	9	AC118269	AC118269	Homo sapi
570	213	7.7	131933	9	AL590311	AL590311	Human DNA
c 571	213	7.7	137693	9	AC003689	AC003689	Homo sapi
572	213	7.7	138536	9	AC116914	AC116914	Homo sapi
573	213	7.7	141790	9	AL590636	AL590636	Human DNA
c 574	213	7.7	147556	2	AC011007	AC011007	Homo sapi
575	213	7.7	148531	9	AC079089	AC079089	Homo sapi
c 576	213	7.7	153650	9	AC022296	AC022296	Homo sapi
c 577	213	7.7	155380	9	AC078777	AC078777	Homo sapi
578	213	7.7	156507	2	AC036184	AC036184	Homo sapi
579	213	7.7	159663	2	AC135960	AC135960	Pan trogl
c 580	213	7.7	164466	2	AC126353	AC126353	Homo sapi
c 581	213	7.7	165263	2	AC146423	AC146423	Pan trogl
c 582	213	7.7	165420	9	AC091588	AC091588	Homo sapi
583	213	7.7	166625	9	BS000032	BS000032	Pan trogl
c 584	213	7.7	167265	9	AC129916	AC129916	Homo sapi
c 585	213	7.7	168210	9	AC018719	AC018719	Homo sapi
c 586	213	7.7	168544	9	AL133344	AL133344	Human DNA
c 587	213	7.7	169405	9	AC092800	AC092800	Homo sapi
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591	213	7.7	180636	9	AC020901	AC020901	Homo sapi
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595	213	7.7	192725	9	AC092431	AC092431	Homo sapi
596	213	7.7	197099	9	AL136979	AL136979	Human DNA
c 597	213	7.7	198134	2	AC024117	AC024117	Homo sapi
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c 603	212.8	7.7	39009	9	AC004232	AC004232	Homo sapi
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605	212.8	7.7	94074	9	HSBC17A96	AL450224	Homo sapi
c 606	212.8	7.7	94212	9	AP000246	AP000246	Homo sapi
c 607	212.8	7.7	100000	9	AP000208	AP000208	Homo sapi
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609	212.8	7.7	123454	9	HSBC17A99	AL450226	Homo sapi
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c 611	212.8	7.7	144878	2	AC145422	AC145422	Homo sapi
c 612	212.8	7.7	154065	2	AC084079	AC084079	Homo sapi
613	212.8	7.7	154539	2	AC079187	AC079187	Homo sapi
614	212.8	7.7	156909	9	AB020863	AB020863	Homo sapi
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c 616	212.8	7.7	159130	2	AC026847	AC026847	Homo sapi
c 617	212.8	7.7	160725	2	HS919B11	AL031302	Homo sapi
618	212.8	7.7	162589	2	AC015717	AC015717	Homo sapi
c 619	212.8	7.7	165173	2	AC037444	AC037444	Homo sapi
620	212.8	7.7	168111	9	HS525L6	AL023807	Human DNA
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622	212.8	7.7	171075	2	AC026842	AC026842	Homo sapi
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625	212.8	7.7	180366	9	AC036196	AC036196	Homo sapi
626	212.8	7.7	181183	2	AL391866	AL391866	Homo sapi
627	212.8	7.7	182449	2	AC015709	AC015709	Homo sapi
628	212.8	7.7	182776	2	AC009766	AC009766	Homo sapi
c 629	212.8	7.7	183015	2	AC140064	AC140064	Homo sapi
630	212.8	7.7	185376	9	AC005096	AC005096	Homo sapi
c 631	212.8	7.7	185710	2	AF276255	AF276255	Homo sapi
c 632	212.8	7.7	185848	9	AC105415	AC105415	Homo sapi
633	212.8	7.7	191746	9	AC079325	AC079325	Homo sapi
c 634	212.8	7.7	196773	9	AC114480	AC114480	Homo sapi
c 635	212.8	7.7	199669	9	AC026469	AC026469	Homo sapi
636	212.8	7.7	201306	2	AC087390	AC087390	Homo sapi
637	212.8	7.7	203078	2	AC083901	AC083901	Homo sapi
638	212.8	7.7	210508	2	AC135612	AC135612	Pan trogl
639	212.8	7.7	213757	9	AL359921	AL359921	Human DNA
c 640	212.8	7.7	237783	2	AC141848	AC141848	Pan trogl
c 641	212.8	7.7	300050	9	AB100085	AB100085	Pan trogl
c 642	212.8	7.7	340000	9	AP001710	AP001710	Homo sapi
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644	212.6	7.7	68355	6	AX706967	AX706967	Sequence
645	212.6	7.7	68355	6	AX707897	AX707897	Sequence
646	212.6	7.7	68355	9	HUAC003026	AC003026	Human Chr
c 647	212.6	7.7	105208	9	AL355515	AL355515	Human DNA
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c 649	212.6	7.7	109445	9	AC008946	AC008946	Homo sapi

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c	653	212.6	7.7	127883	9	AL136141 AL136141 Human DNA
c	654	212.6	7.7	148456	2	AL133550 AL133550 Homo sapi
c	655	212.6	7.7	151766	9	AC016396 AC016396 Homo sapi
	656	212.6	7.7	155313	2	AC068315 AC068315 Homo sapi
	657	212.6	7.7	158430	2	AC012431 AC012431 Homo sapi
	658	212.6	7.7	158549	9	HS79C4 Z97200 Human DNA s
c	659	212.6	7.7	160855	9	AC109925 AC109925 Homo sapi
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	661	212.6	7.7	163057	2	AC012419 AC012419 Homo sapi
	662	212.6	7.7	163852	9	AC015971 AC015971 Homo sapi
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	665	212.6	7.7	180399	2	AC079252 AC079252 Homo sapi
	666	212.6	7.7	180918	2	AC091239 AC091239 Homo sapi
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	669	212.6	7.7	183105	9	AC009497 AC009497 Homo sapi
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c	671	212.6	7.7	183915	2	AC073967 AC073967 Homo sapi
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	674	212.6	7.7	186591	6	AX706984 AX706984 Sequence
	675	212.6	7.7	186591	6	AX707914 AX707914 Sequence
	676	212.6	7.7	189317	2	AC024483 AC024483 Homo sapi
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	678	212.6	7.7	196772	9	AC087392 AC087392 Homo sapi
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c	680	212.6	7.7	208417	9	AC025778 AC025778 Homo sapi
c	681	212.6	7.7	208648	6	AX706965 AX706965 Sequence
c	682	212.6	7.7	208648	6	AX706970 AX706970 Sequence
c	683	212.6	7.7	208648	6	AX707895 AX707895 Sequence
c	684	212.6	7.7	208648	6	AX707900 AX707900 Sequence
c	685	212.6	7.7	211544	9	AC025165 AC025165 Homo sapi
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	687	212.6	7.7	309805	2	AC026340 AC026340 Homo sapi
	688	212.4	7.7	20939	9	AC133798 AC133798 Homo sapi
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	699	212.4	7.7	121355	9	AL358943 AL358943 Human DNA
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	701	212.4	7.7	127431	9	AC027796 AC027796 Homo sapi
c	702	212.4	7.7	129808	9	AC079760 AC079760 Homo sapi
c	703	212.4	7.7	133728	9	AL139220 AL139220 Human DNA
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	705	212.4	7.7	136035	2	BX537284 BX537284 Homo sapi
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	707	212.4	7.7	140195	9	AC087163 AC087163 Homo sapi
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	711	212.4	7.7	159397	2	AC027040 AC027040 Homo sapi
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	714	212.4	7.7	163396	9	AL161445 AL161445 Human DNA
c	715	212.4	7.7	164123	9	AL360078 AL360078 Human DNA
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	717	212.4	7.7	167122	2	AC053532 AC053532 Homo sapi
	718	212.4	7.7	170412	9	AC097528 AC097528 Homo sapi
	719	212.4	7.7	171361	9	BS000184 BS000184 Pan trogl
	720	212.4	7.7	172090	2	AC018477 AC018477 Homo sapi
	721	212.4	7.7	173239	9	AC016399 AC016399 Homo sapi
	722	212.4	7.7	173386	2	AL353776 AL353776 Homo sapi
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	725	212.4	7.7	173445	9	AC078876 AC078876 Homo sapi
	726	212.4	7.7	174742	2	AC016896 AC016896 Homo sapi
	727	212.4	7.7	179262	9	AL355343 AL355343 Human DNA
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	731	212.4	7.7	183666	9	AC009487 AC009487 Homo sapi
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c	738	212.4	7.7	195434	9	AC090744 AC090744 Homo sapi
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	740	212.4	7.7	200548	2	AC040962 AC040962 Homo sapi
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	754	212.2	7.7	84710	9	HSBA358N2 AL121583 Human DNA
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c	785	212	7.7	103177	9	AP000841 AP000841 Homo sapi
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c	789	212	7.7	116139	9	AL356255 AL356255 Human DNA
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807	212	7.7	168931	2	AC144998	AC144998 Pan trogl
808	212	7.7	170423	9	AC018663	AC018663 Human Chr
809	212	7.7	171309	9	AC012146	AC012146 Homo sapi
810	212	7.7	173670	9	AL133351	AL133351 Human DNA
c 811	212	7.7	174311	2	AL365319	AL365319 Homo sapi
c 812	212	7.7	174556	9	AC120193	AC120193 Homo sapi
813	212	7.7	176075	9	AC017079	AC017079 Homo sapi
c 814	212	7.7	177067	2	AC016516	AC016516 Homo sapi
815	212	7.7	179627	9	AC113426	AC113426 Homo sapi
816	212	7.7	181144	9	AL365444	AL365444 Human DNA
c 817	212	7.7	181756	9	AC097714	AC097714 Homo sapi
c 818	212	7.7	182917	9	AL139383	AL139383 Human DNA
c 819	212	7.7	186563	9	AC104452	AC104452 Homo sapi
c 820	212	7.7	186925	2	AC087503	AC087503 Homo sapi
821	212	7.7	190534	9	AC024958	AC024958 Homo sapi
c 822	212	7.7	190803	9	AL355490	AL355490 Human DNA
c 823	212	7.7	191871	2	AC084133	AC084133 Homo sapi
824	212	7.7	197000	2	AC124859	AC124859 Homo sapi
c 825	212	7.7	207751	2	AC112189	AC112189 Homo sapi
826	212	7.7	215150	9	AC026689	AC026689 Homo sapi
827	212	7.7	215441	9	AC005736	AC005736 Homo sapi
c 828	212	7.7	224187	9	AL732374	AL732374 Human DNA
829	212	7.7	236486	9	AC021188	AC021188 Homo sapi
c 830	212	7.7	242159	2	AC091567	AC091567 Homo sapi
c 831	212	7.7	242222	9	AC099668	AC099668 Homo sapi
c 832	211.8	7.7	3827	9	HSM803125	AL831813 Homo sapi
c 833	211.8	7.7	43632	9	AC004144	AC004144 Homo sapi
c 834	211.8	7.7	74507	9	AC004031	AC004031 Homo sapi
835	211.8	7.7	86203	9	AC017116	AC017116 Homo sapi
836	211.8	7.7	89198	2	AC021365	AC021365 Homo sapi
c 837	211.8	7.7	103679	9	AL137005	AL137005 Human DNA
c 838	211.8	7.7	106687	9	AL356124	AL356124 Human DNA
c 839	211.8	7.7	110000	2	AC018724_0	AC018724 Homo sapi
c 840	211.8	7.7	138778	9	AC009226	AC009226 Homo sapi
841	211.8	7.7	140730	9	AC010942	AC010942 Homo sapi
842	211.8	7.7	149110	9	AP003692	AP003692 Homo sapi
c 843	211.8	7.7	150560	2	AC146187	AC146187 Pan trogl
844	211.8	7.7	151834	9	AC005399	AC005399 Homo sapi
845	211.8	7.7	155249	9	AC109487	AC109487 Homo sapi
c 846	211.8	7.7	155809	2	AC145106	AC145106 Homo sapi
c 847	211.8	7.7	157103	2	AC011886	AC011886 Homo sapi
848	211.8	7.7	157580	9	AC010297	AC010297 Homo sapi
849	211.8	7.7	158285	9	AC021066	AC021066 Homo sapi
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851	211.8	7.7	161279	2	AC139508	AC139508 Homo sapi
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853	211.8	7.7	162682	2	AC140140	AC140140 Homo sapi
854	211.8	7.7	166046	2	AC080174	AC080174 Homo sapi
c 855	211.8	7.7	167693	2	AC011639	AC011639 Homo sapi
856	211.8	7.7	168396	9	AC007546	AC007546 Homo sapi
c 857	211.8	7.7	170138	2	AC018794	AC018794 Homo sapi
858	211.8	7.7	174071	2	AC139835	AC139835 Homo sapi
859	211.8	7.7	174906	9	AC025428	AC025428 Homo sapi
860	211.8	7.7	180013	2	AC091668	AC091668 Pan trogl
861	211.8	7.7	180805	2	AC138837	AC138837 Homo sapi
862	211.8	7.7	180837	2	AC022824	AC022824 Homo sapi
c 863	211.8	7.7	182411	2	AC090408	AC090408 Homo sapi
864	211.8	7.7	182557	2	AC091942	AC091942 Homo sapi
865	211.8	7.7	184263	9	AC004805	AC004805 Homo sapi
c 866	211.8	7.7	184485	2	AC009679	AC009679 Homo sapi
c 867	211.8	7.7	189371	2	AC090230	AC090230 Homo sapi
c 868	211.8	7.7	192464	9	AC090971	AC090971 Homo sapi
869	211.8	7.7	192863	2	AC147313	AC147313 Pan trogl
870	211.8	7.7	194399	9	AC146335	AC146335 Homo sapi
c 871	211.8	7.7	197004	2	AC139501	AC139501 Homo sapi
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c 873	211.8	7.7	199372	9	AC145138	AC145138 Homo sapi
874	211.8	7.7	201460	9	AP003721	AP003721 Homo sapi
875	211.8	7.7	202791	2	AC139503	AC139503 Homo sapi
876	211.8	7.7	202943	9	AC010134	AC010134 Homo sapi
c 877	211.8	7.7	210933	2	AC027394	AC027394 Homo sapi
c 878	211.8	7.7	228263	2	AC079930	AC079930 Homo sapi
879	211.6	7.7	67045	2	AC127535	AC127535 Homo sapi
880	211.6	7.7	82901	9	AL391335	AL391335 Human DNA
c 881	211.6	7.7	83549	9	AC004752	AC004752 Homo sapi
882	211.6	7.7	84364	9	HS522J7	Z98885 Human DNA s
883	211.6	7.7	110665	9	HS696P19	AL035588 Human DNA
884	211.6	7.7	112184	9	AC008805	AC008805 Homo sapi
885	211.6	7.7	119525	9	AC142496	AC142496 Homo sapi
886	211.6	7.7	129120	2	AC099721	AC099721 Homo sapi
887	211.6	7.7	129874	9	HSJ991B18	AL049541 Human DNA
c 888	211.6	7.7	130416	9	AC008851	AC008851 Homo sapi
889	211.6	7.7	132943	9	AC011287	AC011287 Homo sapi
890	211.6	7.7	147156	9	AC142497	AC142497 Homo sapi
891	211.6	7.7	147974	2	AC076970	AC076970 Homo sapi
c 892	211.6	7.7	150284	2	AC055815	AC055815 Homo sapi
893	211.6	7.7	151259	2	AC138822	AC138822 Homo sapi
c 894	211.6	7.7	152709	2	AC027526	AC027526 Homo sapi
c 895	211.6	7.7	153527	9	AC092806	AC092806 Homo sapi
896	211.6	7.7	154516	9	AC090324	AC090324 Homo sapi
897	211.6	7.7	155839	9	AC091959	AC091959 Homo sapi
898	211.6	7.7	159044	2	AC025269	AC025269 Homo sapi
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900	211.6	7.7	160701	9	AC108106	AC108106 Homo sapi
c 901	211.6	7.7	167071	9	AC092380	AC092380 Homo sapi
c 902	211.6	7.7	172404	9	AC138948	AC138948 Homo sapi
c 903	211.6	7.7	172966	9	AC013467	AC013467 Homo sapi
c 904	211.6	7.7	174654	9	AC073167	AC073167 Homo sapi
905	211.6	7.7	180531	9	AC008745	AC008745 Homo sapi
906	211.6	7.7	181154	2	AC138842	AC138842 Homo sapi
c 907	211.6	7.7	182105	2	AC036149	AC036149 Homo sapi
c 908	211.6	7.7	183032	2	AC143326	AC143326 Homo sapi
909	211.6	7.7	183411	2	AC137495	AC137495 Homo sapi
c 910	211.6	7.7	183996	9	AF196779	AF196779 Homo sapi
c 911	211.6	7.7	184453	9	AC025593	AC025593 Homo sapi
c 912	211.6	7.7	185785	9	AC138817	AC138817 Homo sapi
c 913	211.6	7.7	188885	9	AC138850	AC138850 Homo sapi
c 914	211.6	7.7	189098	9	AL512430	AL512430 Human DNA
c 915	211.6	7.7	189143	2	AC142077	AC142077 Homo sapi
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c 917	211.6	7.7	189672	9	AL133480	AL133480 Human DNA
918	211.6	7.7	190076	9	AC008403	AC008403 Homo sapi
919	211.6	7.7	191635	2	AC140122	AC140122 Homo sapi
c 920	211.6	7.7	192814	9	AC007597	AC007597 Homo sapi
921	211.6	7.7	192925	2	AC138953	AC138953 Homo sapi
922	211.6	7.7	195226	2	AC141305	AC141305 Homo sapi
c 923	211.6	7.7	196753	9	AC008055	AC008055 Homo sapi
c 924	211.6	7.7	198248	2	AP001487	AP001487 Homo sapi
c 925	211.6	7.7	201419	9	AC138908	AC138908 Homo sapi
c 926	211.6	7.7	202269	9	AC130689	AC130689 Homo sapi
c 927	211.6	7.7	205673	2	AC073131	AC073131 Homo sapi
928	211.6	7.7	206192	9	AL133173	AL133173 Human DNA
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930	211.6	7.7	211297	2	AC138860	AC138860 Homo sapi
c 931	211.6	7.7	214786	9	AC007610	AC007610 Homo sapi
932	211.6	7.7	216200	2	AC138862	AC138862 Homo sapi
c 933	211.6	7.7	216342	9	AC009132	AC009132 Homo sapi
c 934	211.6	7.7	224148	2	AC016179	AC016179 Homo sapi
935	211.6	7.7	225384	9	AC138832	AC138832 Homo sapi
c 936	211.6	7.7	227245	9	AC008569	AC008569 Homo sapi
937	211.6	7.7	238249	2	AC138960	AC138960 Homo sapi
c 938	211.6	7.7	339940	2	AC139464	AC139464 Homo sapi
c 939	211.4	7.7	44226	9	AY130859	AY130859 Homo sapi
c 940	211.4	7.7	54423	9	AC104538	AC104538 Homo sapi
941	211.4	7.7	66910	9	AC083757	AC083757 Homo sapi

942	211.4	7.7	76967	9	AC008475	AC008475 Homo sapi
c 943	211.4	7.7	81512	9	AC008412	AC008412 Homo sapi
944	211.4	7.7	81891	9	AC108076	AC108076 Homo sapi
945	211.4	7.7	82359	9	AC004922	AC004922 Homo sapi
c 946	211.4	7.7	86684	9	AC010605	AC010605 Homo sapi
947	211.4	7.7	95422	9	AC073108	AC073108 Homo sapi
c 948	211.4	7.7	97781	9	AL732479	AL732479 Human DNA
949	211.4	7.7	100000	9	AP000502	AP000502 Homo sapi
c 950	211.4	7.7	105238	9	AC011458	AC011458 Homo sapi
c 951	211.4	7.7	107315	9	AL136303	AL136303 Human DNA
952	211.4	7.7	118269	9	HSA541I12	AL121868 Human DNA
953	211.4	7.7	120834	9	AC093602	AC093602 Homo sapi
954	211.4	7.7	125980	9	AC093223	AC093223 Homo sapi
c 955	211.4	7.7	130328	2	AC079622	AC079622 Homo sapi
956	211.4	7.7	132642	2	AC146404	AC146404 Pan trogl
c 957	211.4	7.7	137345	9	AL669924	AL669924 Human DNA
958	211.4	7.7	140349	9	AC027320	AC027320 Homo sapi
c 959	211.4	7.7	146376	9	AC009247	AC009247 Homo sapi
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961	211.4	7.7	150263	9	AC145132	AC145132 Homo sapi
962	211.4	7.7	153148	2	AC017030	AC017030 Homo sapi
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c 964	211.4	7.7	154622	2	AC126336	AC126336 Homo sapi
965	211.4	7.7	155132	2	AC080148	AC080148 Homo sapi
966	211.4	7.7	155589	9	AC084879	AC084879 Homo sapi
c 967	211.4	7.7	156023	2	AC124612	AC124612 Homo sapi
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c 970	211.4	7.7	163511	9	AL442203	AL442203 Human DNA
971	211.4	7.7	166715	9	AC011294	AC011294 Homo sapi
c 972	211.4	7.7	168111	9	HS525L6	AL023807 Human DNA
c 973	211.4	7.7	169825	9	AC012652	AC012652 Homo sapi
c 974	211.4	7.7	174235	9	AC145919	AC145919 Pan trogl
c 975	211.4	7.7	176438	2	AC126761	AC126761 Homo sapi
c 976	211.4	7.7	176512	2	AC021099	AC021099 Homo sapi
c 977	211.4	7.7	177017	9	AC087294	AC087294 Homo sapi
c 978	211.4	7.7	178714	2	AC129504	AC129504 Homo sapi
c 979	211.4	7.7	180852	2	AC126765	AC126765 Homo sapi
c 980	211.4	7.7	183334	9	AC020558	AC020558 Homo sapi
c 981	211.4	7.7	186340	2	AC016684	AC016684 Homo sapi
982	211.4	7.7	187383	2	AC138954	AC138954 Homo sapi
983	211.4	7.7	187592	2	AC069033	AC069033 Homo sapi
984	211.4	7.7	189356	9	AC005746	AC005746 Homo sapi
985	211.4	7.7	190466	2	AC022285	AC022285 Homo sapi
c 986	211.4	7.7	194020	9	AC096679	AC096679 Pan trogl
987	211.4	7.7	195646	9	AC093709	AC093709 Pan trogl
988	211.4	7.7	197992	2	AC020715	AC020715 Homo sapi
989	211.4	7.7	209401	2	AC106885	AC106885 Homo sapi
c 990	211.4	7.7	209897	9	AP001029	AP001029 Homo sapi
991	211.4	7.7	218723	9	AL732314	AL732314 Human DNA
992	211.4	7.7	253328	2	AC130341	AC130341 Homo sapi
c 993	211.2	7.7	22354	2	AC090729	AC090729 Homo sapi
994	211.2	7.7	51000	9	AP005265	AP005265 Homo sapi
995	211.2	7.7	68589	9	HS237J2	AL021394 Human DNA
996	211.2	7.7	73503	2	AC013586	AC013586 Homo sapi
c 997	211.2	7.7	74486	9	AC055764	AC055764 Homo sapi
c 998	211.2	7.7	100598	9	AC006271	AC006271 Homo sapi
c 999	211.2	7.7	104782	9	CNS05TEZ	AL359681 Human chr
c1000	211.2	7.7	111864	9	AL591499	AL591499 Human DNA
c1001	211.2	7.7	114149	9	AC022083	AC022083 Homo sapi
1002	211.2	7.7	114596	9	HS1063B2	AL035683 Human DNA
c1003	211.2	7.7	114793	9	AP000769	AP000769 Homo sapi
c1004	211.2	7.7	114983	2	AC093209	AC093209 Homo sapi
1005	211.2	7.7	119882	9	AC108024	AC108024 Homo sapi
c1006	211.2	7.7	120000	9	AC073597	AC073597 Homo sapi
1007	211.2	7.7	129261	2	AC068247	AC068247 Homo sapi
c1008	211.2	7.7	135317	9	AC110769	AC110769 Homo sapi
1009	211.2	7.7	142347	9	HSDJ94E24	AL050317 Human DNA
c1010	211.2	7.7	144514	2	AC027433	AC027433 Homo sapi
c1011	211.2	7.7	144714	9	AC020891	AC020891 Homo sapi
c1012	211.2	7.7	147123	2	AC027030	AC027030 Homo sapi
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1014	211.2	7.7	152574	9	AC011195	AC011195 Homo sapi
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1016	211.2	7.7	156415	9	AC011464	AC011464 Homo sapi
c1017	211.2	7.7	157481	9	AC093512	AC093512 Homo sapi
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1019	211.2	7.7	161635	9	AC083873	AC083873 Homo sapi
1020	211.2	7.7	163908	9	AC005411	AC005411 Homo sapi
1021	211.2	7.7	164622	2	AC026208	AC026208 Homo sapi
1022	211.2	7.7	170269	2	AC144530	AC144530 Homo sapi
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c1024	211.2	7.7	175830	2	AC090547	AC090547 Homo sapi
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c1027	211.2	7.7	180948	9	AC114399	AC114399 Homo sapi
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1029	211.2	7.7	181605	2	AC021420	AC021420 Homo sapi
c1030	211.2	7.7	183689	2	AC146129	AC146129 Pan trogl
1031	211.2	7.7	184396	9	AC010853	AC010853 Homo sapi
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1035	211.2	7.7	211509	9	CNS08CBD	AL928654 Human chr
1036	211.2	7.7	213524	2	AL390792	AL390792 Homo sapi
1037	211.2	7.7	213648	9	AL158040	AL158040 Human DNA
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1040	211.2	7.7	226910	2	AC141314	AC141314 Homo sapi
1041	211.2	7.7	305124	2	AC073858	AC073858 Homo sapi
1042	211	7.7	2544	6	AX876288	AX876288 Sequence
1043	211	7.7	2544	6	BD156051	BD156051 Primer fo
1044	211	7.7	2544	9	AK027451	AK027451 Homo sapi
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1047	211	7.7	78190	9	AC106760	AC106760 Homo sapi
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c1050	211	7.7	93599	2	AC084728	AC084728 Homo sapi
1051	211	7.7	99251	9	AL592045	AL592045 Human DNA
1052	211	7.7	102532	9	AL731550	AL731550 Human DNA
c1053	211	7.7	103069	9	AL606469	AL606469 Human DNA
c1054	211	7.7	103694	9	AC004836	AC004836 Homo sapi
c1055	211	7.7	112748	9	AC007242	AC007242 Homo sapi
c1056	211	7.7	114596	9	HS1063B2	AL035683 Human DNA
1057	211	7.7	115612	9	AY220758	AY220758 Homo sapi
1058	211	7.7	116061	9	AL732324	AL732324 Human DNA
1059	211	7.7	118121	2	AC034189	AC034189 Homo sapi
1060	211	7.7	122648	2	AC026025	AC026025 Homo sapi
1061	211	7.7	128899	9	AL391139	AL391139 Human DNA
c1062	211	7.7	132032	9	AC093635	AC093635 Homo sapi
1063	211	7.7	138621	9	AP002028	AP002028 Homo sapi
1064	211	7.7	140409	2	AC044825	AC044825 Homo sapi
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1066	211	7.7	149253	2	AC012245	AC012245 Homo sapi
c1067	211	7.7	149317	9	AL954214	AL954214 Pan trogl
c1068	211	7.7	153187	9	AL954215	AL954215 Pan trogl
1069	211	7.7	155691	9	AC016868	AC016868 Homo sapi
1070	211	7.7	157610	9	AC087235	AC087235 Homo sapi
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c1072	211	7.7	159002	9	AC006013	AC006013 Homo sapi
c1073	211	7.7	161386	9	AC103739	AC103739 Homo sapi
c1074	211	7.7	162509	9	AL137852	AL137852 Human DNA
1075	211	7.7	163197	2	AC091392	AC091392 Pan trogl
1076	211	7.7	164330	2	AC016928	AC016928 Homo sapi
c1077	211	7.7	164331	9	AC016254	AC016254 Homo sapi
1078	211	7.7	166343	9	CNS01O8B	AL139785 Human chr
1079	211	7.7	167732	9	AC091092	AC091092 Papio anu
c1080	211	7.7	167962	2	AC073484	AC073484 Homo sapi
c1081	211	7.7	170655	2	AP001012	AP001012 Homo sapi
c1082	211	7.7	170758	9	AC004965	AC004965 Homo sapi
c1083	211	7.7	172421	2	AC013279	AC013279 Homo sapi
c1084	211	7.7	172893	2	AC024596	AC024596 Homo sapi
c1085	211	7.7	173709	9	AP001010	AP001010 Homo sapi
c1086	211	7.7	176132	2	AC061976	AC061976 Homo sapi
1087	211	7.7	179236	2	AC005143	AC005143 Homo sapi

c1088	211	7.7	179264	2	AC023112	AC023112 Homo sapi
1089	211	7.7	180163	9	AP001925	AP001925 Homo sapi
1090	211	7.7	182114	2	AC026296	AC026296 Homo sapi
c1091	211	7.7	184121	9	AC016706	AC016706 Homo sapi
1092	211	7.7	184490	9	HSU82828	U82828 Homo sapien
c1093	211	7.7	185321	9	AC123908	AC123908 Homo sapi
1094	211	7.7	188643	9	AC142329	AC142329 Pan trogl
c1095	211	7.7	190946	9	CNS01DV1	AL133445 Human chr
c1096	211	7.7	195806	9	AC027243	AC027243 Homo sapi
1097	211	7.7	196292	9	CNS0000B	AL049829 Human chr
c1098	211	7.7	198784	2	AC021318	AC021318 Homo sapi
1099	211	7.7	201509	2	AC145356	AC145356 Gorilla g
1100	211	7.7	208738	9	AC019131	AC019131 Homo sapi
1101	211	7.7	212246	2	AC069232	AC069232 Homo sapi
1102	211	7.7	232180	2	AC021883	AC021883 Homo sapi
c1103	210.8	7.7	50334	9	HS995J12	AL035462 Human DNA
1104	210.8	7.7	75454	9	AC011433	AC011433 Homo sapi
1105	210.8	7.7	78491	9	AC139768	AC139768 Homo sapi
1106	210.8	7.7	94879	9	AC103965	AC103965 Homo sapi
1107	210.8	7.7	97687	9	AL591403	AL591403 Human DNA
c1108	210.8	7.7	98992	9	AP001050	AP001050 Homo sapi
c1109	210.8	7.7	102019	9	HSDJ12G14	AL078581 Human DNA
1110	210.8	7.7	108032	9	AL162421	AL162421 Human DNA
c1111	210.8	7.7	108687	9	AL356320	AL356320 Human DNA
1112	210.8	7.7	109906	9	HS329E20	AL031005 Human DNA
c1113	210.8	7.7	113332	2	AC091767	AC091767 Homo sapi
c1114	210.8	7.7	114575	9	BX248088	BX248088 Human DNA
c1115	210.8	7.7	123233	2	AC084100	AC084100 Homo sapi
c1116	210.8	7.7	129120	2	AC099721	AC099721 Homo sapi
1117	210.8	7.7	134469	2	AC012682	AC012682 Homo sapi
1118	210.8	7.7	143967	9	AL365366	AL365366 Human DNA
1119	210.8	7.7	144431	9	AC079376	AC079376 Homo sapi
1120	210.8	7.7	147078	2	AC080184	AC080184 Homo sapi
c1121	210.8	7.7	147102	9	AC002476	AC002476 Human PAC
1122	210.8	7.7	147556	2	AC011007	AC011007 Homo sapi
c1123	210.8	7.7	151111	9	AC125603	AC125603 Homo sapi
c1124	210.8	7.7	155521	9	AC069335	AC069335 Homo sapi
c1125	210.8	7.7	156776	9	AC011443	AC011443 Homo sapi
c1126	210.8	7.7	157081	2	AC023084	AC023084 Homo sapi
c1127	210.8	7.7	157773	2	AC068099	AC068099 Homo sapi
1128	210.8	7.7	162189	9	AL592295	AL592295 Human DNA
c1129	210.8	7.7	163554	2	AC021786	AC021786 Homo sapi
c1130	210.8	7.7	164274	9	BS000103	BS000103 Pan trogl
1131	210.8	7.7	164382	2	AC018421	AC018421 Homo sapi
1132	210.8	7.7	165203	9	AL589693	AL589693 Human DNA
c1133	210.8	7.7	166305	9	AC012447	AC012447 Homo sapi
c1134	210.8	7.7	166518	9	AC007431	AC007431 Homo sapi
1135	210.8	7.7	168512	9	AC100826	AC100826 Homo sapi
1136	210.8	7.7	169511	9	AC146026	AC146026 Pan trogl
c1137	210.8	7.7	172393	2	AC025740	AC025740 Homo sapi
1138	210.8	7.7	172577	2	AL365174	AL365174 Homo sapi
1139	210.8	7.7	172615	2	AC139765	AC139765 Homo sapi
c1140	210.8	7.7	173415	9	AL591890	AL591890 Human DNA
c1141	210.8	7.7	174378	9	AC020983	AC020983 Homo sapi
c1142	210.8	7.7	177298	2	AC068751	AC068751 Homo sapi
1143	210.8	7.7	179623	9	AC013429	AC013429 Homo sapi
1144	210.8	7.7	179871	2	AC024602	AC024602 Homo sapi
1145	210.8	7.7	181644	9	AC104989	AC104989 Homo sapi
1146	210.8	7.7	184332	2	AC011777	AC011777 Homo sapi
1147	210.8	7.7	184539	2	AC027192	AC027192 Homo sapi
c1148	210.8	7.7	184621	2	AC104636	AC104636 Homo sapi
c1149	210.8	7.7	186115	9	AC008474	AC008474 Homo sapi
c1150	210.8	7.7	191244	2	AC137604	AC137604 Homo sapi
c1151	210.8	7.7	191292	2	AC084420	AC084420 Homo sapi
1152	210.8	7.7	191925	9	AC008736	AC008736 Homo sapi
1153	210.8	7.7	194427	9	AC093153	AC093153 Homo sapi
1154	210.8	7.7	194529	9	AC009677	AC009677 Homo sapi
c1155	210.8	7.7	195342	9	AC009120	AC009120 Homo sapi
c1156	210.8	7.7	196363	9	AC096759	AC096759 Homo sapi
1157	210.8	7.7	199393	2	AC013374	AC013374 Homo sapi
c1158	210.8	7.7	200610	9	AP002851	AP002851 Homo sapi
c1159	210.8	7.7	201637	9	BX842589	BX842589 Chimp DNA
c1160	210.8	7.7	206302	2	AC133125	AC133125 Homo sapi
c1161	210.8	7.7	213466	2	AC019224	AC019224 Homo sapi
1162	210.8	7.7	259474	9	HUAC004605	AC004605 Homo sapi
c1163	210.8	7.7	340000	9	AP001751	AP001751 Homo sapi
1164	210.6	7.7	13799	9	AP000258	AP000258 Homo sapi
1165	210.6	7.7	39569	9	AC000084	AC000084 Homo sapi
1166	210.6	7.7	40351	9	AC005620	AC005620 Homo sapi
1167	210.6	7.7	42304	9	AC002491	AC002491 Homo sapi
c1168	210.6	7.7	62117	2	AC107891	AC107891 Homo sapi
c1169	210.6	7.7	64022	2	AC136348	AC136348 Homo sapi
1170	210.6	7.7	65393	2	AC104577	AC104577 Homo sapi
1171	210.6	7.7	70426	2	AC138371	AC138371 Homo sapi
c1172	210.6	7.7	77162	9	AC112694	AC112694 Homo sapi
c1173	210.6	7.7	92434	9	AL358793	AL358793 Human DNA
1174	210.6	7.7	100000	9	AP000098	AP000098 Homo sapi
1175	210.6	7.7	100000	9	AP000174	AP000174 Homo sapi
1176	210.6	7.7	100515	9	AL133289	AL133289 Human DNA
1177	210.6	7.7	103122	9	AC005663	AC005663 Homo sapi
c1178	210.6	7.7	106930	2	AC138283	AC138283 Homo sapi
1179	210.6	7.7	109568	2	AP000840	AP000840 Homo sapi
c1180	210.6	7.7	110144	9	AC008053	AC008053 Homo sapi
1181	210.6	7.7	112357	9	AC011378	AC011378 Homo sapi
1182	210.6	7.7	119991	9	AC110285	AC110285 Homo sapi
1183	210.6	7.7	130278	9	AC005664	AC005664 Homo sapi
1184	210.6	7.7	132063	9	AC017096	AC017096 Homo sapi
c1185	210.6	7.7	132875	9	AC112907	AC112907 Homo sapi
1186	210.6	7.7	133769	9	AC010362	AC010362 Homo sapi
1187	210.6	7.7	133769	9	AC010429	AC010429 Homo sapi
1188	210.6	7.7	140025	2	AC126233	AC126233 Pan trogl
1189	210.6	7.7	140401	9	AC092588	AC092588 Homo sapi
c1190	210.6	7.7	143060	9	AL929472	AL929472 Human DNA
1191	210.6	7.7	143092	2	AC051641	AC051641 Homo sapi
c1192	210.6	7.7	143366	2	AC147004	AC147004 Homo sapi
1193	210.6	7.7	146652	2	AL445304	AL445304 Homo sapi
1194	210.6	7.7	149425	2	AC013320	AC013320 Homo sapi
c1195	210.6	7.7	152116	9	AC008471	AC008471 Homo sapi
1196	210.6	7.7	157145	2	AC146323	AC146323 Pan trogl
1197	210.6	7.7	157912	9	AL133387	AL133387 Human DNA
c1198	210.6	7.7	158905	9	AC005666	AC005666 Homo sapi
1199	210.6	7.7	160034	9	AC007846	AC007846 Homo sapi
1200	210.6	7.7	160705	9	HS61A9	AL035703 Human DNA
1201	210.6	7.7	160748	9	AC021241	AC021241 Homo sapi
c1202	210.6	7.7	165662	9	BS000201	BS000201 Pan trogl
c1203	210.6	7.7	167102	9	AC084017	AC084017 Homo sapi
c1204	210.6	7.7	167429	2	AC010952	AC010952 Homo sapi
c1205	210.6	7.7	170397	9	AC119677	AC119677 Homo sapi
c1206	210.6	7.7	170908	2	AC022557	AC022557 Homo sapi
1207	210.6	7.7	172105	9	AC093135	AC093135 Pan trogl
1208	210.6	7.7	173910	9	AC083982	AC083982 Homo sapi
1209	210.6	7.7	175550	2	AC009863	AC009863 Homo sapi
c1210	210.6	7.7	176054	2	AC022377	AC022377 Homo sapi
1211	210.6	7.7	176155	2	AC012149	AC012149 Homo sapi
c1212	210.6	7.7	178548	9	AC018831	AC018831 Homo sapi
c1213	210.6	7.7	184716	9	AC018836	AC018836 Homo sapi
1214	210.6	7.7	185848	2	AC025929	AC025929 Homo sapi
1215	210.6	7.7	188340	9	AC135178	AC135178 Homo sapi
1216	210.6	7.7	189821	9	AL354735	AL354735 Human DNA
1217	210.6	7.7	191754	9	AC021016	AC021016 Homo sapi
1218	210.6	7.7	191996	9	AC092275	AC092275 Homo sapi
c1219	210.6	7.7	192664	2	AC013466	AC013466 Homo sapi
1220	210.6	7.7	195323	2	AC026612	AC026612 Homo sapi
c1221	210.6	7.7	196044	9	AC018505	AC018505 Homo sapi
1222	210.6	7.7	196410	9	AC027544	AC027544 Homo sapi
c1223	210.6	7.7	198565	2	AC016750	AC016750 Homo sapi
c1224	210.6	7.7	200655	9	AC091825	AC091825 Homo sapi
1225	210.6	7.7	205642	9	AC016586	AC016586 Homo sapi
c1226	210.6	7.7	205886	9	AC012504	AC012504 Homo sapi
1227	210.6	7.7	207283	9	AC092377	AC092377 Homo sapi
1228	210.6	7.7	207596	9	AC124916	AC124916 Homo sapi
1229	210.6	7.7	209876	9	AC011599	AC011599 Homo sapi
c1230	210.6	7.7	211012	9	AC018843	AC018843 Homo sapi
c1231	210.6	7.7	229408	9	AC069271	AC069271 Homo sapi
c1232	210.6	7.7	230000	9	AF243527	AF243527 Homo sapi
1233	210.6	7.7	241968	2	AC123609	AC123609 Mus muscu

1234	210.6	7.7	255952	2	AL513473	AL513473 Homo sapi
1235	210.6	7.7	272170	2	AC146228	AC146228 Pan trogl
1236	210.6	7.7	340000	9	AP001712	AP001712 Homo sapi
c1237	210.4	7.7	3848	9	BC039247	BC039247 Homo sapi
c1238	210.4	7.7	72172	9	AC010311	AC010311 Homo sapi
c1239	210.4	7.7	80869	9	HSDJ454N4	AL096794 Human DNA
c1240	210.4	7.7	86437	2	AC090276	AC090276 Homo sapi
1241	210.4	7.7	87102	2	AF205591	AF205591 Homo sapi
c1242	210.4	7.7	87280	2	AC137784_3	Continuation (4 of
1243	210.4	7.7	94400	9	AC138336	AC138336 Homo sapi
c1244	210.4	7.7	100958	9	HS691N24	AL031672 Human DNA
c1245	210.4	7.7	110000	2	AC009801_0	AC009801 Homo sapi
c1246	210.4	7.7	110000	2	AC137784_2	Continuation (3 of
1247	210.4	7.7	110000	2	AC139486_4	Continuation (5 of
1248	210.4	7.7	110000	2	AL929091_07	Continuation (8 of
c1249	210.4	7.7	112303	9	AC093836	AC093836 Homo sapi
c1250	210.4	7.7	113764	9	HSJ651E10	AL122002 Human DNA
1251	210.4	7.7	114007	9	HSJ1185K9	AL109807 Human DNA
c1252	210.4	7.7	115289	9	AC011490	AC011490 Homo sapi
1253	210.4	7.7	124514	9	AC140878	AC140878 Homo sapi
c1254	210.4	7.7	132695	9	AC106718	AC106718 Homo sapi
1255	210.4	7.7	145428	2	AC026068	AC026068 Homo sapi
c1256	210.4	7.7	146358	9	HS3D11	AL035088 Human DNA
c1257	210.4	7.7	147400	9	AC138927	AC138927 Homo sapi
1258	210.4	7.7	147484	2	AL590088	AL590088 Homo sapi
c1259	210.4	7.7	148420	2	AC069266	AC069266 Homo sapi
c1260	210.4	7.7	148847	9	BS000227	BS000227 Pan trogl
c1261	210.4	7.7	149620	2	AC069397	AC069397 Homo sapi
1262	210.4	7.7	150505	9	AC009274	AC009274 Homo sapi
c1263	210.4	7.7	151696	2	AP001768	AP001768 Homo sapi
c1264	210.4	7.7	153549	2	AC022664	AC022664 Homo sapi
1265	210.4	7.7	155842	9	AC073127	AC073127 Homo sapi
c1266	210.4	7.7	156235	2	AC140807	AC140807 Homo sapi
c1267	210.4	7.7	156705	2	AC027270	AC027270 Homo sapi
1268	210.4	7.7	160904	9	AC093718	AC093718 Homo sapi
1269	210.4	7.7	161340	2	AC140711	AC140711 Homo sapi
1270	210.4	7.7	161613	2	AC023947	AC023947 Homo sapi
c1271	210.4	7.7	162041	2	AC137797	AC137797 Homo sapi
1272	210.4	7.7	163852	2	AC060795	AC060795 Homo sapi
c1273	210.4	7.7	165655	2	AC027605	AC027605 Homo sapi
c1274	210.4	7.7	167531	9	AL158832	AL158832 Human DNA
c1275	210.4	7.7	167548	9	AL391809	AL391809 Human DNA
1276	210.4	7.7	169721	2	AC141077	AC141077 Homo sapi
c1277	210.4	7.7	171114	9	AC136613	AC136613 Homo sapi
c1278	210.4	7.7	173381	9	AC018685	AC018685 Homo sapi
c1279	210.4	7.7	173446	2	AC136608	AC136608 Homo sapi
1280	210.4	7.7	173450	9	AC091769	AC091769 Homo sapi
1281	210.4	7.7	174783	9	AC138924	AC138924 Homo sapi
c1282	210.4	7.7	175153	9	AL356244	AL356244 Human DNA
c1283	210.4	7.7	176017	9	AP002748	AP002748 Homo sapi
1284	210.4	7.7	177274	9	AP000424	AP000424 Homo sapi
c1285	210.4	7.7	177448	9	AC044781	AC044781 Homo sapi
1286	210.4	7.7	177810	2	AC024161	AC024161 Homo sapi
c1287	210.4	7.7	179783	2	AC141256	AC141256 Homo sapi
1288	210.4	7.7	183113	9	HS243E7	AL022323 Human DNA
1289	210.4	7.7	183149	9	AC007909	AC007909 Homo sapi
c1290	210.4	7.7	183297	9	AC133485	AC133485 Homo sapi
1291	210.4	7.7	183427	2	AC090608	AC090608 Homo sapi
1292	210.4	7.7	184267	2	AC078796	AC078796 Homo sapi
c1293	210.4	7.7	185049	9	AL365495	AL365495 Human DNA
1294	210.4	7.7	186325	2	AC074244	AC074244 Homo sapi
c1295	210.4	7.7	186687	9	AC134943	AC134943 Homo sapi
c1296	210.4	7.7	187239	2	AC021349	AC021349 Homo sapi
c1297	210.4	7.7	189281	2	AC138944	AC138944 Homo sapi
1298	210.4	7.7	193902	2	AL591112	AL591112 Homo sapi
1299	210.4	7.7	194813	9	AC068999	AC068999 Homo sapi
1300	210.4	7.7	195849	9	AL392172	AL392172 Human DNA
c1301	210.4	7.7	196359	2	AC142389	AC142389 Homo sapi
c1302	210.4	7.7	196662	9	AP001107	AP001107 Homo sapi
c1303	210.4	7.7	196991	2	AC007914	AC007914 Homo sapi
c1304	210.4	7.7	199162	2	AC126563	AC126563 Homo sapi
c1305	210.4	7.7	199536	2	AC141067	AC141067 Homo sapi
c1306	210.4	7.7	199891	9	CNS00M8O	AL079303 Human chr
c1307	210.4	7.7	200587	2	AC133564	AC133564 Homo sapi
c1308	210.4	7.7	203312	2	AC140884	AC140884 Homo sapi
c1309	210.4	7.7	207746	2	AC017108	AC017108 Homo sapi
1310	210.4	7.7	208102	2	AC139269	AC139269 Homo sapi
1311	210.4	7.7	209645	2	AC015575	AC015575 Homo sapi
c1312	210.4	7.7	210589	2	AC140864	AC140864 Homo sapi
1313	210.4	7.7	214025	9	AC007882	AC007882 Homo sapi
c1314	210.4	7.7	214110	9	AC007908	AC007908 Homo sapi
c1315	210.4	7.7	218476	9	AC117503	AC117503 Homo sapi
1316	210.4	7.7	218980	2	AC064828	AC064828 Homo sapi
c1317	210.4	7.7	221054	2	AC009882	AC009882 Homo sapi
c1318	210.4	7.7	229155	9	AC018755	AC018755 Homo sapi
c1319	210.4	7.7	234771	9	AC133536	AC133536 Homo sapi
c1320	210.4	7.7	246941	2	AC145215	AC145215 Homo sapi
c1321	210.4	7.7	277047	2	AC137780	AC137780 Homo sapi
c1322	210.2	7.6	1180	9	BC008394	BC008394 Homo sapi
1323	210.2	7.6	1566	9	AB065926	AB065926 Homo sapi
1324	210.2	7.6	14348	9	AC104106	AC104106 Homo sapi
c1325	210.2	7.6	44826	9	HS426N21	Z82208 Human DNA s
1326	210.2	7.6	62147	2	AC026510	AC026510 Homo sapi
c1327	210.2	7.6	63451	9	AL662886	AL662886 Human DNA
c1328	210.2	7.6	75733	9	AC118275	AC118275 Homo sapi
c1329	210.2	7.6	87102	2	AF205591	AF205591 Homo sapi
c1330	210.2	7.6	94023	9	AC008720	AC008720 Homo sapi
1331	210.2	7.6	101270	9	HS483K16	AL034374 Human DNA
c1332	210.2	7.6	103056	9	AC068447	AC068447 Homo sapi
c1333	210.2	7.6	110000	2	AC024562_0	AC024562 Homo sapi
c1334	210.2	7.6	112366	9	AL591804	AL591804 Human DNA
1335	210.2	7.6	117746	9	BS000015	BS000015 Pan trogl
1336	210.2	7.6	118230	9	AC104247	AC104247 Homo sapi
c1337	210.2	7.6	134773	2	AC012247	AC012247 Homo sapi
c1338	210.2	7.6	134774	9	AC023520	AC023520 Homo sapi
1339	210.2	7.6	135734	2	AC002346	AC002346 Homo sapi
c1340	210.2	7.6	136000	9	AP003119	AP003119 Homo sapi
c1341	210.2	7.6	141497	9	AC005410	AC005410 Homo sapi
1342	210.2	7.6	143979	9	AC125494	AC125494 Homo sapi
1343	210.2	7.6	147009	2	AC084179	AC084179 Homo sapi
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ALIGNMENTS

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DEFINITION  Sequence 516 from patent US 6478825.
ACCESSION   AR252737
VERSION     AR252737.1  GI:27300645
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 2749)
  AUTHORS   Winterbottom,J.M., Shimp,L., Boyce,T.M. and Kaes,D.
  TITLE     Implant, method of making same and use of the implant for the
            treatment of bone defects
  JOURNAL   Patent: US 6478825-A 516 12-NOV-2002;
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ORIGIN
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Query Match 99.9%; Score 2747; DB 6; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy       1921 GAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA 1980
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Db       1921 GAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA 1980

Qy       1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
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Qy       2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTG 2100
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Qy       2221 GTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACC 2280
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Qy       2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340
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Db       2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340

Qy       2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400

Qy       2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTTC 2460
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Qy       2581 TTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGTA 2640
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Qy       2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700
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Qy       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
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RESULT 2
AX403629
LOCUS       AX403629               2749 bp    DNA     linear   PAT 14-JUN-2002
DEFINITION  Sequence 516 from Patent WO0073454.
ACCESSION   AX403629
VERSION     AX403629.1  GI:21437091
KEYWORDS    .
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
  AUTHORS   Ashkenazi,A.J., Baker,K.P., Botstein,D., Desnoyers,L., Eaton,D.,
            Ferrara,N., Gerber,H., Gerritsen,M., Goddard,A., Godowski,P.,
            Grimaldi,C.J., Gurney,A.L., Kljavin,I., Napier,M.A., Pan,J.,
            Paoni,N.F., Roy,M., Stewart,T.A., Tumas,D., Watanabe,C.K.,
            Williams,P., Wood,W.I. and Zhang,Z.
  TITLE     Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: WO 0073454-A 516 07-DEC-2000;
            Genentech Inc. (US)
FEATURES             Location/Qualifiers
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                     /db_xref="taxon:9606"
ORIGIN

  Query Match             99.9%;  Score 2747;  DB 6;  Length 2749;
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  Matches 2749;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
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Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
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Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
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Qy        601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660
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Qy        661 AGCTCCCGCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720
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Db        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780

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Qy        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900
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Db        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900

Qy        901 TCACGCTTGACTGCGGAGGAAAAGGAAGCCCCTTCCCAGGCCCCTGAGGGGGACGTGATC 960
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy        961 TCGATGCCTCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
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Db        961 TCGATGCCTCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020

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Qy      1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
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RESULT 3
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DEFINITION  Sequence 59 from Patent WO0208284.
ACCESSION   AX454474
VERSION     AX454474.1  GI:21713861
KEYWORDS    .
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
  AUTHORS   Baker,K.P., Ferrara,N., Gerber,H., Gerritsen,M.E., Goddard,A.,
            Godowski,P.J., Gurney,A.L., Hillan,K.J., Marsters,S.A., Pan,J.,
            Paoni,N.F., Stephan,J.P., Watanabe,C.K., Williams,P.M., Wood,W.I.
            and Ye,W.
  TITLE     Compositions and methods for the diagnosis and treatment of
            disorders involving angiogenesis
  JOURNAL   Patent: WO 0208284-A 59 31-JAN-2002;
            Genentech, Inc. (US) ; Baker, Kevin P. (US) ; Ferrara, Napoleone
            (US) ; Gerber, Hanspeter (US) ; Gerritsen, Mary E. (US) ; Goddard,
            Audrey (US) ; Godowski, Paul J. (US) ; Gurney, Austin L. (US) ;
            Hillan, Kenneth J. (US) ; Marsters, Scot A. (US) ; Pan, James (US)
            ; Paoni, Nicholas F. (US) ; Stephan, Jean-Philippe F. (US) ;
            Watanabe, Colin K. (US) ; Williams, P. Mickey (US) ; Wood, William
            I. (US)
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Query Match 99.9%; Score 2747; DB 6; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
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Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
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Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
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Qy       1081 ACCGATTCCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
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VERSION     AX464252.1  GI:21899142
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REFERENCE   1
  AUTHORS   Baker,K.P., Beresini,M., Deforge,L., Desnoyers,L., Filvaroff,E.,
            Gao,W.Q., Gerritsen,M.E., Goddard,A., Godowski,P.J., Gurney,A.L.,
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            Wood,W.L. and Zhang,Z.
  TITLE     Secreted and transmembrane polypeptides and nucleic acids encoding
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  JOURNAL   Patent: WO 0140466-A 385 07-JUN-2001;
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ORIGIN

  Query Match             99.9%;  Score 2747;  DB 6;  Length 2749;
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  Matches 2749;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
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Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
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Db        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300

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Qy      2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700
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RESULT 5
AX490952
LOCUS       AX490952               2749 bp    DNA     linear   PAT 16-AUG-2002
DEFINITION  Sequence 59 from Patent WO0200690.
ACCESSION   AX490952
VERSION     AX490952.1  GI:22323813
KEYWORDS    .
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
  AUTHORS   Baker,K.P., Ferrara,N., Gerber,H., Gerritsen,M.E., Goddard,A.,
            Godowski,P.J., Gurney,A.L., Hillan,K.J., Marsters,S.A., Pan,J.,
            Paoni,N.F., Stephan,J.P., Watanabe,C.K., Williams,P.M., Wood,W.I.
            and Ye,W.
  TITLE     Compositions and methods for the diagnosis and treatment of
            disorders involving angiogenesis
  JOURNAL   Patent: WO 0200690-A 59 03-JAN-2002;
            Genentech, Inc. (US)
FEATURES             Location/Qualifiers
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ORIGIN

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Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
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Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
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Db        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300

Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
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Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
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Qy        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
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Qy        781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840
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Qy        901 TCACGCTTGACTGCGGAGGAAAAGGAAGCCCCTTCCCAGGCCCCTGAGGGGGACGTGATC 960
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Qy        961 TCGATGCCTCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
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Qy       1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
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Qy       1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCTCATGCCCAGTGTCG 1380
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Db       1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCTCATGCCCAGTGTCG 1380

Qy       1381 GACCCTGCCTTCCTCCCACTCCAGACCCCACCTTGTCTTCCCTCCCTGGCGTCCTCAGAC 1440
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Db       1441 TTAGTCCCACGGTCTCCTGCATCAGCTGGTGATGAAGAGGAGCATGCTGGGGTGAGACTG 1500

Qy       1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
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RESULT 6
AY358364
LOCUS       AY358364               2749 bp    mRNA    linear   PRI 03-OCT-2003
DEFINITION  Homo sapiens clone DNA44196 RLLV422 (UNQ422) mRNA, complete cds.
ACCESSION   AY358364
VERSION     AY358364.1  GI:37181852
KEYWORDS    FLI_CDNA.
SOURCE      Homo sapiens (human)
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            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 2749)
  AUTHORS   Clark,H.F., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J.,
            Chen,J., Chow,B., Chui,C., Crowley,C., Currell,B., Deuel,B.,
            Dowd,P., Eaton,D., Foster,J., Grimaldi,C., Gu,Q., Hass,P.E.,
            Heldens,S., Huang,A., Kim,H.S., Klimowski,L., Jin,Y., Johnson,S.,
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            Xie,M.H., Yansura,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z.,
            Goddard,A., Wood,W.I. and Godowski,P.
  TITLE     The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
            Effort to Identify Novel Human Secreted and Transmembrane Proteins:
            A Bioinformatics Assessment
  JOURNAL   Genome Res. 13 (10), 2265-2270 (2003)
   PUBMED   12975309
REFERENCE   2  (bases 1 to 2749)
  AUTHORS   Clark,H.F.
  TITLE     Direct Submission
  JOURNAL   Submitted (01-AUG-2003) Department of Bioinformatics, Genentech,
            Inc., 1 DNA Way, South San Francisco, CA 94080, USA
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ORIGIN

  Query Match           99.9%;  Score 2747;  DB 9;  Length 2749;
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DEFINITION  Homo sapiens similar to CMRF35 antigen precursor (CMRF-35), mRNA
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ACCESSION   BC025395
VERSION     BC025395.2  GI:34783340
KEYWORDS    MGC.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 2771)
AUTHORS Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G., Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D., Altschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K., Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hsieh,F., Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L., Stapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L., Scheetz,T.E., Brownstein,M.J., Usdin,T.B., Toshiyuki,S., Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J., Abramson,R.D., Mullahy,S.J., Bosak,S.A., McEwan,P.J., McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S., Worley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulyk,S.W., Villalon,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A., Fahey,J., Helton,E., Ketteman,M., Madan,A., Rodrigues,S., Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y., Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D., Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M., Butterfield,Y.S., Krzywinski,M.I., Skalska,U., Smailus,D.E., Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A.
TITLE Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
MEDLINE 22388257
PUBMED 12477932

REFERENCE 2 (bases 1 to 2771)
AUTHORS Strausberg,R.
TITLE Direct Submission
JOURNAL Submitted (05-MAR-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA

REMARK NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT On Sep 16, 2003 this sequence version replaced gi:19263986.
Contact: MGC help desk
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
cDNA Library Preparation: Michael J. Brownstein (NHGRI) & Shiraki Toshiyuki and Piero Carninci (RIKEN)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Institute for Systems Biology
http://www.systemsbiology.org
contact: amadan@systemsbiology.org
Anup Madan, Jessica Fahey, Erin Helton, Mark Ketteman, Anuradha Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Series: IRAK Plate: 34 Row: c Column: 4
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 21687217.

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ORIGIN

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DEFINITION Secreted proteins and polynucleotides encoding them.
ACCESSION BD242876
VERSION BD242876.1 GI:33052646
KEYWORDS JP 2002536973-A/27.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1987)
AUTHORS Valenzuela,D., Yuan,O., Hoffman,H., Hall,J. and Rapiejko,P.
TITLE Secreted proteins and polynucleotides encoding them
JOURNAL Patent: JP 2002536973-A 27 05-NOV-2002;
ALPHAGENE INC
COMMENT OS Homo sapiens (human)
PN JP 2002536973-A/27
PD 05-NOV-2002
PF 18-FEB-2000 JP 2000599860
PR 19-FEB-1999 US 60/120680,23-APR-1999 US 09/298733 PR

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RESULT 9
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DEFINITION  Homo sapiens chromosome 17, clone RP11-527L4, complete sequence.
ACCESSION   AC007993
VERSION     AC007993.15  GI:6693756
KEYWORDS    HTG.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
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            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 141704)
  AUTHORS   Birren,B., Linton,L., Nusbaum,C. and Lander,E.
  TITLE     Homo sapiens chromosome 17, clone RP11-527L4
  JOURNAL   Unpublished
REFERENCE   2  (bases 1 to 141704)
  AUTHORS   Birren,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,M.,
            Baker,J., Baldwin,J., Barna,N., Beckerly,R., Benn,J., Brown,A.,
            Castle,A., Cerny,J., Colangelo,M., Collins,S., Collymore,A.,
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            Wheeler,J., Wu,X., Wyman,D., Ye,W.J. and Zody,M.
  TITLE     Direct Submission
  JOURNAL   Submitted (08-JUL-1999) Whitehead Institute/MIT Center for Genome
            Research, 320 Charles Street, Cambridge, MA 02141, USA
REFERENCE   3  (bases 1 to 141704)
  AUTHORS   Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N.,
            Anderson,S., Baldwin,J., Barna,N., Beckerly,R., Beda,F.,
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            Zimmer,A. and Zody,M.
  TITLE     Direct Submission
  JOURNAL   Submitted (15-JAN-2000) Whitehead Institute/MIT Center for Genome
            Research, 320 Charles Street, Cambridge, MA 02141, USA
COMMENT     On Jan 15, 2000 this sequence version replaced gi:6681347.
            All repeats were identified using RepeatMasker:
            Smit, A.F.A. & Green, P. (1996-1997)
            http://ftp.genome.washington.edu/RM/RepeatMasker.html

            Only the last 141704 base pairs of this clone are being submitted.
            The remainder overlaps accession number AC004150 (WICGR project
            L306).
             -------------- Genome Center
                Center: Whitehead Institute/ MIT Center for Genome Research
                Center code: WIBR
                Web site: http://www-seq.wi.mit.edu
                Contact: sequence_submissions@genome.wi.mit.edu
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                Center project name: L559
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              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     139003 TAACAATGCCCAGTGACTGTCGCACTTGAGTTTGAGGGCCAGTGGGCCTGATGAACGCTC 138944

Qy       1685 ACACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCT-CCACCTGCCCCCAAT-AG 1742
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Db     138943 AGACCCCTCCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCCACCTGCCCCAATAAG 138884

Qy       1743 ATCTGCTCTGTCTGCGACACC-AGATCCACGTGGGGACTCCCCTGAGGCCTG-CTAAGTC 1800
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Db     138883 ATCTGCTCTGTCTGCGACACCAAGATCCAGCTGGGGACTCCCCTGAGGCCTGCCTAAGTC 138824

Qy       1801 CAGGCCTTGGTCAGGTCAGGTGCACATTGCA-GGATAAGCCCAGGACCGGCACAGAAGTG 1859
              |||||||||||||||||||||||||||||| |||||||||||||||||| || |||| 
Db     138823 CAGGCCTTGGTCAGGTCAGGTGCACATTGCAGGGATAAGCCCAGGACCGGCAGAG-AGTG 138765

Qy       1860 GTTGCCTTTNCCATTTGCCCTCCCTGGNCCATGCCTTCTTGCCTTTGGAAAAAATGATGA 1919
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Qy       1920 AGAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCT 1979
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Qy       1980 AGAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAAC 2039
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Qy       2040 AGGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGT 2099
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Db     138587 AGGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGG 138528
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Qy       2100 GGTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAG 2159
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Db     138527 GGTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAG 138468

Qy       2160 AATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTG 2219
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Qy       2220 GGTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCAC 2279
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Db     138407 GGTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCAC 138348

Qy       2280 CACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCT 2339
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Qy       2340 GGTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATT 2399
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Qy       2400 ACAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTT 2459
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Qy       2460 CAGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCC 2519
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Qy       2520 ATAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTT 2579
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Db     138107 ATAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTT 138048

Qy       2580 CTTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGT 2639
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Db     138047 CTTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGT 137988

Qy       2640 ATCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTAC 2699
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Db     137987 ATCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTAC 137928

Qy       2700 AGACCTTTTTATAAATAAAATGTTCATCAGCTGCATA 2736
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RESULT 10
AC078837/c
LOCUS       AC078837              196421 bp    DNA     linear   HTG 23-DEC-2000
DEFINITION  Homo sapiens chromosome RPCI-11 clone RP11-753I5, WORKING DRAFT
            SEQUENCE, 58 unordered pieces.
ACCESSION   AC078837
VERSION     AC078837.3  GI:11990751
KEYWORDS    HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 196421)
  AUTHORS   Waterston,R.H.
  TITLE     The sequence of Homo sapiens clone
  JOURNAL   Unpublished
REFERENCE   2  (bases 1 to 196421)
  AUTHORS   Waterston,R.H.
  TITLE     Direct Submission
  JOURNAL   Submitted (04-AUG-2000) Genome Sequencing Center, Washington
            University School of Medicine, 4444 Forest Park Parkway, St. Louis,
            MO 63108, USA
COMMENT     On Dec 23, 2000 this sequence version replaced gi:10181053.

            ---------- Genome Center ----------
            Center: Washington University Genome Sequencing Center
            Center code: WUGSC
            Web site:http://genome.wustl.edu/gsc/index.shtml

            ---------- Project Information ----------
            Center project name: H_NH0753I05
            ---------- Summary Statistics  ----------
            Sequencing vector: M13; 100%
            Sequencing vector: plasmid; 0%
            Chemistry: Dye-primer ET; 100% of reads
            Chemistry: Dye-terminator Big Dye; 0% of reads
            Assembly program: Phrap; version 0.990319
            Consensus quality: 163510 bases at least Q40
            Consensus quality: 174302 bases at least Q30
            Consensus quality: 179811 bases at least Q20
            Insert size: 205000; agarose-fp
            Insert size: 190789; sum-of-contigs
            Quality coverage: 3.04 in Q20 bases; agarose-fp
            Quality coverage: 3.15 in Q20 bases; sum-of-contigs
            ----------------------------------------------.
            * NOTE: This is a 'working draft' sequence. It currently
            * consists of 58 contigs. The true order of the pieces
            * is not known and their order in this sequence record is
            * arbitrary. Gaps between the contigs are represented as
            * runs of N, but the exact sizes of the gaps are unknown.
            * This record will be updated with the finished sequence
            * as soon as it is available and the accession number will
            * be preserved.
            *        1     1234: contig of 1234 bp in length
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            *     1335     2739: contig of 1405 bp in length
            *     2740     2839: gap of unknown length
            *     2840     3921: contig of 1082 bp in length
            *     3922     4021: gap of unknown length
            *     4022     5902: contig of 1881 bp in length
            *     5903     6002: gap of unknown length
            *     6003     7587: contig of 1585 bp in length
            *     7588     7687: gap of unknown length
            *     7688     9123: contig of 1436 bp in length
            *     9124     9223: gap of unknown length
            *     9224    10389: contig of 1166 bp in length
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            *    10490    11581: contig of 1092 bp in length
            *    11582    11681: gap of unknown length
            *    11682    12845: contig of 1164 bp in length
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            *    12946    14485: contig of 1540 bp in length
            *    14486    14585: gap of unknown length
            *    14586    16099: contig of 1514 bp in length
            *    16100    16199: gap of unknown length
            *    16200    17573: contig of 1374 bp in length
            *    17574    17673: gap of unknown length
            *    17674    19601: contig of 1928 bp in length
            *    19602    19701: gap of unknown length
            *    19702    21093: contig of 1392 bp in length
            *    21094    21193: gap of unknown length
            *    21194    22407: contig of 1214 bp in length
            *    22408    22507: gap of unknown length
            *    22508    23989: contig of 1482 bp in length
            *    23990    24089: gap of unknown length
            *    24090    25735: contig of 1646 bp in length
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            *    32229    32328: gap of unknown length
            *    32329    34229: contig of 1901 bp in length
            *    34230    34329: gap of unknown length
            *    34330    36919: contig of 2590 bp in length
            *    36920    37019: gap of unknown length
            *    37020    39187: contig of 2168 bp in length
            *    39188    39287: gap of unknown length
            *    39288    40978: contig of 1691 bp in length
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            *    82707    87157: contig of 4451 bp in length
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  Query Match             60.0%;  Score 1650.6;  DB 2;  Length 196421;
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  Matches 1812;  Conservative    0;  Mismatches    9;  Indels   16;  Gaps   14;

Qy        909 GACTGCGGAGGAAAAGGAAGCCCCTTCCCAGGCCCCTGAGGGGGACGTGATCTCGATGCC 968
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Db     195046 GACTGCGGAGGAAAAGGAAGCCCCTTCCCAGGCCCCTGAGGGGGACGTGATCTCGATGCC 194987

Qy        969 TCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCGTAGGGCAG 1028
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Db     194986 TCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCGTAGGGCAG 194927

Qy       1029 GAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGCACCGATTC 1088
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Qy       1089 CCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCTCTCCCCAC 1148
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Qy       1149 CCTCCCCAGGCTCTCCTCTTGCATGTTCCAGCCTGACCTAGAAGCGTTTGTCAGCCCTGG 1208
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Qy       1269 ATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCTCAGTGGAT 1328
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Qy       1509 GCTTCTCTTTGAACCACCTGCAT-CCAGCCCTTCAGGAAGCCTGTGAAAAACGTGATTCC 1567
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Qy       1685 ACACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCT-CCACCTGCCCCAAT-AG 1742
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Qy       1801 CAGGCCTTGGTCAGGTCAGGTGCACATTGCA-GGATAAGCCCAGGACCGGCACAGAAGTG 1859
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Qy       1860 GTTGCCTTTNCCATTTGCCCTCCCTGGNCCATGCCTTCTTGCCTTTGGAAAAAATGATGA 1919
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Db     193433 ATAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTT 193374

Qy       2580 CTTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGT 2639
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Db     193373 CTTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGT 193314

Qy       2640 ATCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTAC 2699
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     193313 ATCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTAC 193254

Qy       2700 AGACCTTTTTATAAATAAAATGTTCATCAGCTGCATA 2736
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Db     193253 AGACCTTTTTATAAATAAAATGTTCATCAGCTGCATA 193217


RESULT 11
AX817149
LOCUS       AX817149               1111 bp    DNA     linear   PAT 10-DEC-2003
DEFINITION  Sequence 74 from Patent WO02063006.
ACCESSION   AX817149
VERSION     AX817149.1  GI:39722551
KEYWORDS    .
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
  AUTHORS   .
  JOURNAL   Patent: WO 02063006-A 74 15-AUG-2002;
            Incyte Genomics, Inc. (US)
FEATURES             Location/Qualifiers
     source          1. .1111
                     /organism="Homo sapiens"
                     /mol_type="unassigned DNA"
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                     /note="Incyte ID No: 3811024CB1"
ORIGIN

  Query Match             25.3%;  Score 694.4;  DB 6;  Length 1111;
  Best Local Similarity   88.7%;  Pred. No. 4.2e-169;
  Matches  807;  Conservative    0;  Mismatches    1;  Indels  102;  Gaps    1;

Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
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Db         32 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 91

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         92 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 151

Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        152 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 211

Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        212 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 271

Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        272 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 331

Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        332 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 391

Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        392 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAG---------------- 434

Qy        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480

Db        435 ------------------------------------------------------------ 434

Qy        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540
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Db        435 -------------------------CTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 469

Qy        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        470 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 529

Qy        601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660
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Db        530 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 589

Qy        661 AGCTCCCGCCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720
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Db        590 AGCTCCCGCCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 649

Qy        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
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Db        650 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 709

Qy        781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840
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Db        710 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 769

Qy        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900
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Db        770 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGCCTC 829

Qy        901 TCACGCTTGA 910
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RESULT 12
AX923505
LOCUS AX923505 942 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 2 from Patent WO03080667.
ACCESSION AX923505
VERSION AX923505.1 GI:40216551
KEYWORDS .
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 .
AUTHORS Colonna,M. and Panina,P.B.
TITLE A novel receptor trem (triggering receptor expressed on myeloid cells) and uses thereof
JOURNAL Patent: WO 03080667-A 2 02-OCT-2003;
Bioxell S.p.a. (IT)
FEATURES Location/Qualifiers
source 1. .942
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
ORIGIN

Query Match 14.3%; Score 394.4; DB 6; Length 942;
Best Local Similarity 96.2%; Pred. No. 3.9e-91;
Matches 404; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

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Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
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Db         38 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGGCTGCTG 97

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         98 CTCCCAGGTTATGAAGCCCTGGAGGGGCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 157

Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        158 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGGACACCGGAAGTACTGGTGCAGG 217

Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        218 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCCACATCTATGCAGAAGAAGAAGGCCAG 277

Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
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Db        278 GAGACAATGAAGGGCAGGTTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 337

Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
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Db        338 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAGAAACGG 397

Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
              | ||||||||||||||||||||||||||||||||||||||||||   || | | || |||
Db        398 GCCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGGAGCTCCCGCCCCCCC 457
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RESULT 13
AF427620
LOCUS AF427620 942 bp mRNA linear PRI 14-DEC-2002
DEFINITION Homo sapiens TREM4 beta mRNA, complete cds.
ACCESSION AF427620
VERSION AF427620.1 GI:26794010
KEYWORDS .
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 942)
AUTHORS Colonna,M.
TITLE Triggering receptor expressed on myeloid cells 4 beta
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 942)
AUTHORS Colonna,M.
TITLE Direct Submission
JOURNAL Submitted (03-OCT-2001) Pathology and Immunology, Washington University School of Medicine, 660 South Euclid, St. Louis, MO 63110, USA
FEATURES Location/Qualifiers
source 1. .942
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
CDS 62. .730
/note="immunoglobulin superfamily; triggering receptor expressed on myeloid cells 4 beta"
/codon_start=1
/product="TREM4 beta"
/protein_id="AAN86135.1"
/db_xref="GI:26794011"
/translation="MRLLVLLWGWLLLPGYEALEGPEEISGFEGDTVSLQCTYREELR
GHRKYWCRKGGILFSRCSGHIYAEEEGQETMKGRLSIRDSRQELSLIVTLWNLTLQDA
GEYWCGVEKRAPDESLLISLFVFPGSSRPPMQLDSTSAEDTSPALSSGSSKPRVSIPM
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ORIGIN

Query Match 14.3%; Score 394.4; DB 9; Length 942;
Best Local Similarity 96.2%; Pred. No. 3.9e-91;
Matches 404; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

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Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
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Db         38 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGGCTGCTG 97

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         98 CTCCCAGGTTATGAAGCCCTGGAGGGGCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 157

Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
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Db        158 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGGACACCGGAAGTACTGGTGCAGG 217

Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        218 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCCACATCTATGCAGAAGAAGAAGGCCAG 277

Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
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Db        398 GCCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGGAGCTCCCGCCCCCCC 457
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Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
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Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
              | ||||||||||||||||||||||||||||||||||||||||||    || | | || |||
Db        398 GCCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGGAGCTCCCGCCCCCCC 457


RESULT 14
AX923504
LOCUS       AX923504                 993 bp    DNA     linear   PAT 18-DEC-2003
DEFINITION  Sequence 1 from Patent WO03080667.
ACCESSION   AX923504
VERSION     AX923504.1  GI:40216550
KEYWORDS    .
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
  AUTHORS   Colonna,M. and Panina,P.B.
  TITLE     A novel receptor trem (triggering receptor expressed on myeloid
            cells) and uses thereof
  JOURNAL   Patent: WO 03080667-A 1 02-OCT-2003;
            Bioxell S.p.a. (IT)
FEATURES             Location/Qualifiers
     source          1. .993
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ORIGIN

  Query Match             14.3%;  Score 394.4;  DB 6;  Length 993;
  Best Local Similarity   96.2%;  Pred. No. 3.9e-91;
  Matches  404;  Conservative    0;  Mismatches   16;  Indels    0;  Gaps    0;

Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
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Db         38 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGGCTGCTG 97

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
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Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
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Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
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Db        398 GCCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGGAGCTCCCGCCCCCCC 457


RESULT 15
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AF427619
LOCUS       AF427619                 993 bp    mRNA    linear   PRI 14-DEC-2002
DEFINITION  Homo sapiens TREM4 alpha mRNA, complete cds.
ACCESSION   AF427619
VERSION     AF427619.1  GI:26794006
KEYWORDS    .
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 993)
  AUTHORS   Colonna,M.
  TITLE     Triggering receptor expressed on myeloid cells 4
  JOURNAL   Unpublished
REFERENCE   2  (bases 1 to 993)
  AUTHORS   Colonna,M.
  TITLE     Direct Submission
  JOURNAL   Submitted (03-OCT-2001) Pathology and Immunology, Washington
            University School of Medicine, 660 South Euclid, St. Louis, MO
            63110, USA
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     CDS             62. .763
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                     expressed on myeloid cells 4 alpha"
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                     /protein_id="AAN86134.1"
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                     GEYWCGVEKRAPDESLLISLFVFPGSSRPPMQLDSTSAEDTSPALSSGSSKPRVSIPM
                     VRILAPVLVLLSLLSAAGLIAFCSHLLLWRKEAQQATETQRNEKFCLSRLNHRTSELD
                     PDEAFEISSLTFLSV"
ORIGIN

  Query Match             14.3%;  Score 394.4;  DB 9;  Length 993;
  Best Local Similarity   96.2%;  Pred. No. 3.9e-91;
  Matches  404;  Conservative    0;  Mismatches   16;  Indels    0;  Gaps    0;

Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
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Db         38 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGGCTGCTG 97

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
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Db         98 CTCCCAGGTTATGAAGCCCTGGAGGGGCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 157

Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
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Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
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Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
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GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

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Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

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8: geneseqn2003bs:*
9: geneseqn2003cs:*
10: geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
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3	2747	99.9	2749	3	AAC78503	Aac78503 Human PRO
4	2747	99.9	2749	4	AAS21436	Aas21436 Human cDN
5	2747	99.9	2749	5	AAF44269	Aaf44269 Human PRO
6	2747	99.9	2749	6	ABL88101	Abl88101 Human PRO
7	2747	99.9	2749	6	ABL95590	Abl95590 Human ang
8	2747	99.9	2749	7	ABX78063	Abx78063 Human PRO
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10	2747	99.9	2749	7	ACA69381	Aca69381 Human cDN
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13	2747	99.9	2749	7	ACD42606	Acd42606 Novel hum
14	2747	99.9	2749	7	ABX64298	Abx64298 cDNA enco
15	2747	99.9	2749	7	ACA67186	Aca67186 cDNA enco
16	2747	99.9	2749	7	ACA63641	Aca63641 Novel hum
17	2747	99.9	2749	7	ACA64520	Aca64520 Novel hum
18	2747	99.9	2749	7	ACA03795	Aca03795 cDNA enco
19	2747	99.9	2749	7	ACA71805	Aca71805 Human sec
20	2747	99.9	2749	7	ABX89333	Abx89333 DNA encod
21	2747	99.9	2749	7	ABX92445	Abx92445 cDNA enco
22	2747	99.9	2749	7	ABX80979	Abx80979 Human sec
23	2747	99.9	2749	7	ACD44488	Acd44488 cDNA enco
24	2747	99.9	2749	7	ACD41987	Acd41987 Human sec
25	2747	99.9	2749	7	ACA66186	Aca66186 Human cDN
26	2747	99.9	2749	7	ABX79659	Abx79659 Human sec
27	2747	99.9	2749	7	ACA93680	Aca93680 Novel hum
28	2747	99.9	2749	7	ABX81362	Abx81362 Human sec
29	2747	99.9	2749	7	ACA04216	Aca04216 Human cDN
30	2747	99.9	2749	7	ACA93178	Aca93178 Novel hum
31	2747	99.9	2749	7	ABX17262	Abx17262 Human PRO
32	2747	99.9	2749	8	ACA68117	Aca68117 Novel hum
33	2747	99.9	2749	8	ACA88566	Aca88566 Human sec
34	2747	99.9	2749	8	ACD82073	Acd82073 cDNA enco
35	2747	99.9	2749	8	ADA45904	Ada45904 Novel hum
36	2747	99.9	2749	8	ADA76335	Ada76335 Human PRO
37	2747	99.9	2749	8	ADA18985	Ada18985 Human PRO
38	2747	99.9	2749	8	ADA61608	Ada61608 Homo sapi
39	2747	99.9	2749	8	ADB19393	Adb19393 Novel hum
40	2747	99.9	2749	8	ADB27934	Adb27934 cDNA enco
41	2747	99.9	2749	8	ADA86413	Ada86413 Novel hum
42	2747	99.9	2749	8	ADB15977	Adb15977 Human PRO
43	2747	99.9	2749	8	ADA38027	Ada38027 Human cDN
44	2747	99.9	2749	8	ADA47763	Ada47763 Human PRO
45	2747	99.9	2749	8	ADA21713	Ada21713 Human cDN
46	2747	99.9	2749	8	ADA10500	Ada10500 Human cDN
47	2747	99.9	2749	8	ADA67558	Ada67558 Human PRO
48	2747	99.9	2749	8	ADB30565	Adb30565 cDNA enco
49	2747	99.9	2749	8	ADA85861	Ada85861 Novel hum
50	2747	99.9	2749	8	ADA18044	Ada18044 cDNA enco
51	2747	99.9	2749	8	ADA97073	Ada97073 Human PRO
52	2747	99.9	2749	8	ADA79377	Ada79377 Human PRO
53	2747	99.9	2749	8	ADA87516	Ada87516 Novel hum
54	2747	99.9	2749	8	ADB16718	Adb16718 Human PRO
55	2747	99.9	2749	8	ADA28152	Ada28152 Human cDN
56	2747	99.9	2749	8	ADA91810	Ada91810 Novel hum
57	2747	99.9	2749	8	ADB14873	Adb14873 Human PRO
58	2747	99.9	2749	8	ADA24754	Ada24754 Novel hum
59	2747	99.9	2749	8	ADB18834	Adb18834 Novel hum
60	2747	99.9	2749	8	ADA94049	Ada94049 Human PRO
61	2747	99.9	2749	8	ADB19945	Adb19945 Novel hum
62	2747	99.9	2749	8	ADB13257	Adb13257 Human PRO
63	2747	99.9	2749	8	ACD98616	Acd98616 Novel hum
64	2747	99.9	2749	8	ACD29787	Acd29787 Novel hum
65	2747	99.9	2749	8	ADA12415	Ada12415 Human cDN
66	2747	99.9	2749	8	ADA94732	Ada94732 Human cDN
67	2747	99.9	2749	8	ADA74511	Ada74511 Human PRO
68	2747	99.9	2749	8	ADB24744	Adb24744 Human PRO
69	2747	99.9	2749	8	ADA82268	Ada82268 Human PRO
70	2747	99.9	2749	8	ADA75231	Ada75231 Human PRO
71	2747	99.9	2749	8	ADA85309	Ada85309 Novel hum
72	2747	99.9	2749	8	ADA84757	Ada84757 Novel hum
73	2747	99.9	2749	8	ADB30013	Adb30013 cDNA enco
74	2747	99.9	2749	8	ADA80541	Ada80541 Human PRO
75	2747	99.9	2749	8	ADA75783	Ada75783 Human PRO
76	2747	99.9	2749	8	ADA38957	Ada38957 Human cDN
77	2747	99.9	2749	8	ADA47008	Ada47008 Human PRO
78	2747	99.9	2749	8	ADB25304	Adb25304 Human PRO
79	2747	99.9	2749	8	ADA93480	Ada93480 Human PRO
80	2747	99.9	2749	8	ADB26830	Adb26830 cDNA enco
81	2747	99.9	2749	8	ADB31117	Adb31117 cDNA enco
82	2747	99.9	2749	8	ADA93078	Ada93078 Human cDN
83	2747	99.9	2749	8	ADA61045	Ada61045 Homo sapi
84	2747	99.9	2749	8	ADB24192	Adb24192 Human PRO
85	2747	99.9	2749	8	ADA96521	Ada96521 Human PRO
86	2747	99.9	2749	8	ADA81093	Ada81093 Human PRO
87	2747	99.9	2749	8	ADA95969	Ada95969 Human PRO
88	2747	99.9	2749	8	ADB26278	Adb26278 cDNA enco
89	2747	99.9	2749	8	ADB21763	Adb21763 Novel hum
90	2747	99.9	2749	8	ACD29202	Acd29202 Novel hum
91	2747	99.9	2749	8	ADA77542	Ada77542 Human PRO
92	2747	99.9	2749	8	ADB18282	Adb18282 cDNA enco
93	2747	99.9	2749	8	ADA86965	Ada86965 Novel hum
94	2747	99.9	2749	8	ADA88068	Ada88068 Novel hum
95	2747	99.9	2749	8	ADA46456	Ada46456 Novel hum
96	2747	99.9	2749	8	ADB28486	Adb28486 cDNA enco

97	2747	99.9	2749	8	ADB29038	Adb29038 cDNA enco
98	2747	99.9	2749	8	ACH65634	Ach65634 Human cDN
99	2747	99.9	2749	8	ADA76990	Ada76990 Human PRO
100	2747	99.9	2749	8	ADA22639	Ada22639 Human cDN
101	2747	99.9	2749	8	ADA88620	Ada88620 Novel hum
102	2747	99.9	2749	8	ADA97625	Ada97625 Human PRO
103	2747	99.9	2749	8	ADB27382	Adb27382 cDNA enco
104	2747	99.9	2749	8	ADB22315	Adb22315 Novel hum
105	2747	99.9	2749	8	ACD39624	Acd39624 Human PRO
106	2747	99.9	2749	8	ADA06805	Ada06805 Human sec
107	2747	99.9	2749	8	ADA39498	Ada39498 Human cDN
108	2747	99.9	2749	8	ADA67006	Ada67006 Human PRO
109	2747	99.9	2749	8	ADB22867	Adb22867 Human PRO
110	2747	99.9	2749	8	ADB23640	Adb23640 Human PRO
111	2747	99.9	2749	8	ADA92362	Ada92362 Novel hum
112	2747	99.9	2749	8	ADB15425	Adb15425 Human PRO
113	2747	99.9	2749	8	ADB38677	Adb38677 Novel hum
114	2747	99.9	2749	8	ADB96524	Adb96524 Human PRO
115	2747	99.9	2749	8	ADB38125	Adb38125 Novel hum
116	2747	99.9	2749	8	ADB66597	Adb66597 Novel hum
117	2747	99.9	2749	9	ADB89677	Adb89677 Human PRO
118	2747	99.9	2749	9	ADB90409	Adb90409 Human PRO
119	2747	99.9	2749	9	ADB39510	Adb39510 Novel hum
120	2747	99.9	2749	9	ADB73721	Adb73721 Human PRO
121	2747	99.9	2749	9	ADB47133	Adb47133 Novel hum
122	2747	99.9	2749	9	ADB86740	Adb86740 Human PRO
123	2747	99.9	2749	9	ADB76437	Adb76437 Human PRO
124	2747	99.9	2749	9	ADB77345	Adb77345 Novel hum
125	2747	99.9	2749	9	ADB34502	Adb34502 Human PRO
126	2747	99.9	2749	9	ADB35606	Adb35606 Human PRO
127	2747	99.9	2749	9	ADB33950	Adb33950 Human PRO
128	2747	99.9	2749	9	ADB35054	Adb35054 Human PRO
129	2747	99.9	2749	9	ADB36158	Adb36158 Human PRO
130	2747	99.9	2749	9	ADB46553	Adb46553 Novel hum
131	2747	99.9	2749	9	ADC43863	Adc43863 Human cDN
132	2747	99.9	2749	9	ADC57996	Adc57996 Human PRO
133	2747	99.9	2749	9	ADC55360	Adc55360 Human PRO
134	2747	99.9	2749	9	ADC12227	Adc12227 Human cDN
135	2747	99.9	2749	9	ADC61623	Adc61623 Human cDN
136	2747	99.9	2749	9	ADC63587	Adc63587 Human cDN
137	2747	99.9	2749	9	ADC66687	Adc66687 Human cDN
138	2747	99.9	2749	9	ADC56649	Adc56649 Human PRO
139	2747	99.9	2749	9	ADC68811	Adc68811 Human cDN
140	2747	99.9	2749	9	ADC62871	Adc62871 Human cDN
141	2747	99.9	2749	9	ADC67936	Adc67936 Human cDN
142	2747	99.9	2749	9	ADC11694	Adc11694 Human cDN
143	2747	99.9	2749	9	ADC41256	Adc41256 Human cDN
144	2747	99.9	2749	9	ADC67311	Adc67311 Human cDN
145	2747	99.9	2749	9	ADC62247	Adc62247 Human cDN
146	2747	99.9	2749	9	ADC41880	Adc41880 Human cDN
147	2747	99.9	2749	9	ADC50426	Adc50426 Novel hum
148	2747	99.9	2749	9	ADC71973	Adc71973 Novel hum
149	2747	99.9	2749	9	ADC59952	Adc59952 Novel hum
150	2747	99.9	2749	9	ADC52959	Adc52959 Novel hum
151	2747	99.9	2749	9	ADC57313	Adc57313 Novel hum
152	2747	99.9	2749	9	ADC60504	Adc60504 Novel hum
153	2747	99.9	2749	9	ADC50979	Adc50979 Novel hum
154	2747	99.9	2749	9	ADC65506	Adc65506 Human PRO
155	2747	99.9	2749	9	ADC54604	Adc54604 Novel hum
156	2747	99.9	2749	9	ADC53565	Adc53565 Novel hum
157	2747	99.9	2749	9	ADC59088	Adc59088 Novel hum
158	2747	99.9	2749	9	ADC55966	Adc55966 Novel hum
159	2747	99.9	2749	9	ADC58536	Adc58536 Novel hum
160	2747	99.9	2749	9	ADC14816	Adc14816 Novel hum
161	2747	99.9	2749	9	ADD08348	Add08348 Novel hum
162	2747	99.9	2749	9	ADD03210	Add03210 Novel hum
163	2747	99.9	2749	9	ADC90202	Adc90202 Novel hum
164	2747	99.9	2749	9	ADC82173	Adc82173 Human PRO
165	2747	99.9	2749	9	ADC69621	Adc69621 cDNA enco
166	2747	99.9	2749	9	ADC48510	Adc48510 Human PRO
167	2747	99.9	2749	9	ADD10039	Add10039 Human PRO
168	2747	99.9	2749	9	ADD07815	Add07815 Novel hum
169	2747	99.9	2749	9	ADD04614	Add04614 Novel hum
170	2747	99.9	2749	9	ADC82706	Adc82706 Human PRO
171	2747	99.9	2749	9	ADC80570	Adc80570 Novel hum
172	2747	99.9	2749	9	ADD11077	Add11077 Human PRO
173	2747	99.9	2749	9	ADD10348	Add10348 Human sec
174	2747	99.9	2749	9	ADC47958	Adc47958 Human PRO
175	2747	99.9	2749	9	ADD08886	Add08886 Novel hum
176	2747	99.9	2749	9	ADC80018	Adc80018 Novel hum
177	2747	99.9	2749	9	ADD07135	Add07135 Novel hum
178	2747	99.9	2749	9	ADD11308	Add11308 Human sec
179	2747	99.9	2749	9	ADD09487	Add09487 Human PRO
180	2747	99.9	2749	9	ADC83382	Adc83382 Human PRO
181	2747	99.9	2749	9	ADD41200	Add41200 Novel hum
182	2747	99.9	2749	9	ADD52339	Add52339 cDNA enco
183	2747	99.9	2749	9	ADD53079	Add53079 cDNA enco
184	2747	99.9	2749	9	ADD53631	Add53631 Novel hum
185	2747	99.9	2749	9	ADD55489	Add55489 Human PRO
186	2747	99.9	2749	9	ADD37101	Add37101 Human sec
187	2747	99.9	2749	9	ADD56447	Add56447 Human PRO
188	2747	99.9	2749	9	ADD51787	Add51787 cDNA enco
189	2747	99.9	2749	9	ADD02586	Add02586 Human PRO
190	2747	99.9	2749	9	ADD02020	Add02020 Human PRO
191	2747	99.9	2749	9	ADD54202	Add54202 Novel hum
192	2747	99.9	2749	9	ADD54885	Add54885 Human PRO
193	2747	99.9	2749	9	ADE49249	Ade49249 Human cDN
194	2747	99.9	2749	9	ADD92519	Add92519 Human PRO
195	2747	99.9	2749	9	ADD91415	Add91415 Human PRO
196	2747	99.9	2749	9	ADE04029	Ade04029 Human PRO
197	2747	99.9	2749	9	ADE31904	Ade31904 Human cDN
198	2747	99.9	2749	9	ADE27039	Ade27039 Novel hum
199	2747	99.9	2749	9	ADE32326	Ade32326 Novel hum
200	2747	99.9	2749	9	ADE22258	Ade22258 cDNA enco
201	2747	99.9	2749	9	ADD79482	Add79482 cDNA enco
202	2747	99.9	2749	9	ADE35303	Ade35303 Human cDN
203	2747	99.9	2749	9	ADE16417	Ade16417 Human cDN
204	2747	99.9	2749	9	ADD73032	Add73032 Human cDN
205	2747	99.9	2749	9	ADE42018	Ade42018 Human PRO
206	2747	99.9	2749	9	ADE17835	Ade17835 Human PRO
207	2747	99.9	2749	9	ADD91967	Add91967 Human PRO
208	2747	99.9	2749	9	ADE33430	Ade33430 Novel hum
209	2747	99.9	2749	9	ADE33982	Ade33982 Novel hum
210	2747	99.9	2749	9	ADD80034	Add80034 cDNA enco
211	2747	99.9	2749	9	ADD93071	Add93071 Human PRO
212	2747	99.9	2749	9	ADD72390	Add72390 Human cDN
213	2747	99.9	2749	9	ADE19491	Ade19491 Human PRO
214	2747	99.9	2749	9	ADE18939	Ade18939 Human PRO
215	2747	99.9	2749	9	ADE43135	Ade43135 Human PRO
216	2747	99.9	2749	9	ADD95924	Add95924 Human PRO
217	2747	99.9	2749	9	ADE22810	Ade22810 cDNA enco
218	2747	99.9	2749	9	ADD78928	Add78928 cDNA enco
219	2747	99.9	2749	9	ADE26506	Ade26506 Novel hum
220	2747	99.9	2749	9	ADE32878	Ade32878 Novel hum
221	2747	99.9	2749	9	ADE42570	Ade42570 Human PRO
222	2747	99.9	2749	9	ADE17041	Ade17041 Human cDN
223	2747	99.9	2749	9	ADD80586	Add80586 cDNA enco
224	2747	99.9	2749	9	ADD89614	Add89614 Human PRO
225	2747	99.9	2749	9	ADE40898	Ade40898 Human PRO
226	2747	99.9	2749	9	ADE04697	Ade04697 Human PRO
227	2747	99.9	2749	10	ADC81122	Adc81122 Novel hum
228	2747	99.9	2749	10	ADD76570	Add76570 Human PRO
229	2747	99.9	2749	10	ADD87934	Add87934 Human PRO
230	2747	99.9	2749	10	ADD86338	Add86338 Human PRO
231	2747	99.9	2749	10	ADE75786	Ade75786 Human PRO
232	2747	99.9	2749	10	ADE48549	Ade48549 Human cDN
233	2747	99.9	2749	10	ADE41309	Ade41309 Human sec
234	2747	99.9	2749	10	ADE23362	Ade23362 cDNA enco
235	2747	99.9	2749	10	ADE23914	Ade23914 cDNA enco
236	2747	99.9	2749	10	ADE24557	Ade24557 cDNA enco
237	2747	99.9	2749	10	ADD87382	Add87382 Human PRO
238	2747	99.9	2749	10	ADE89248	Ade89248 Human PRO
239	2747	99.9	2749	10	ADE18387	Ade18387 Human PRO
240	2747	99.9	2749	10	ADE88696	Ade88696 Human PRO
241	2747	99.9	2749	10	ADE89650	Ade89650 Human cDN
242	2746	99.9	2748	2	AAZ34073	Aaz34073 Human PRO

	243	1679.6	61.1	1987	3	AAA93127	Aaa93127 Human sec
	244	905.8	33.0	974	9	ADB36355	Adb36355 Human imm
	245	745.2	27.1	1060	6	ABZ11340	Abz11340 Human pol
	246	694.4	25.3	1111	6	ABS67809	Abs67809 Human rec
	247	653	23.8	667	6	ABT10733	Abt10733 Human bre
	248	495.4	18.0	576	8	ACH27482	Ach27482 Human adu
	249	444.6	16.2	459	3	AAA88530	Aaa88530 cDNA clon
	250	408.8	14.9	962	9	ADB36351	Adb36351 Human imm
	251	394.4	14.3	942	9	ADD94822	Add94822 Human TRE
	252	394.4	14.3	993	9	ADD94821	Add94821 Human TRE
	253	277.8	10.1	294	7	ABZ19015	Abz19015 Group III
c	254	222.4	8.1	24843	6	AAS17764	Aas17764 Human Gen
c	255	219.8	8.0	3480	4	AAK66072	Aak66072 Human imm
c	256	219.8	8.0	3480	4	AAK66073	Aak66073 Human imm
c	257	219.8	8.0	3480	4	AAK73229	Aak73229 Human imm
c	258	219.8	8.0	3480	4	AAK73228	Aak73228 Human imm
	259	218.6	8.0	11470	4	AAS41754	Aas41754 Genomic s
c	260	218.4	7.9	59588	9	ADC87426	Adc87426 Human GPC
c	261	217	7.9	12149	4	AAS36758	Aas36758 Human car
c	262	217	7.9	12149	9	ADE47452	Ade47452 Human car
	263	216.8	7.9	23434	7	ACC00503	Acc00503 Human his
c	264	216.2	7.9	110000	6	ABA90193_1	Continuation (2 of
c	265	216.2	7.9	110000	6	ABQ87681_1	Continuation (2 of
c	266	216.2	7.9	110000	7	ABX33717_1	Continuation (2 of
c	267	216.2	7.9	110000	9	ADB81391_0	Adb81391 Partial g
	268	216	7.9	44848	3	AAA75080	Aaa75080 Nucleotid
	269	216	7.9	174424	6	ABL68122	Abl68122 Ovary can
c	270	215.8	7.9	17590	3	AAZ50904	Aaz50904 Human TBC
	271	215.6	7.8	78539	7	ACA64942	Aca64942 Human FRA
	272	215.2	7.8	143306	6	ABK49586	Abk49586 Human tra
c	273	215	7.8	27154	4	AAL05708	Aal05708 Human rep
	274	215	7.8	227968	6	ABK83497	Abk83497 Human cDN
	275	214.8	7.8	22481	2	AAT11658	Aat11658 PEDF full
	276	214.8	7.8	22484	6	ABA98882	Aba98882 Nucleotid
	277	214.8	7.8	22484	6	ABA05882	Aba05882 Angiogene
	278	214.8	7.8	22484	6	ABQ88196	Abq88196 Human ost
	279	214.8	7.8	22484	6	ABN96844	Abn96844 Gene #334
	280	214.6	7.8	14581	7	ABS57267	Abs57267 Partial s
	281	214.6	7.8	14581	9	ADB99091	Adb99091 Human ret
	282	214	7.8	30110	4	AAK89230	Aak89230 Human dig
	283	213.8	7.8	7849	2	AAQ94109	Aaq94109 hML genom
c	284	213.6	7.8	5367	5	AAS80633	Aas80633 DNA encod
c	285	213.2	7.8	99957	8	ADA03032	Ada03032 Human mCG
c	286	213.2	7.8	99957	9	ADB72770	Adb72770 Human CA
c	287	213.2	7.8	99957	9	ADC85512	Adc85512 Human gen
c	288	213	7.7	13865	2	AAV40401	Aav40401 Human tis
c	289	213	7.7	13865	2	AAZ32165	Aaz32165 Human cho
c	290	213	7.7	13865	7	ABZ71985	Abz71985 Human tis
c	291	212.8	7.7	601	7	ABX61865	Abx61865 Novel hum
	292	212.6	7.7	68355	7	ACF62737	Acf62737 Cancer ba
	293	212.6	7.7	68355	7	ADB20852	Adb20852 MRP1 base
	294	212.6	7.7	68355	9	ADB87941	Adb87941 Human UGT
	295	212.6	7.7	68355	9	ADB96924	Adb96924 Human MDR
	296	212.6	7.7	68355	9	ADB92115	Adb92115 Human MDR
	297	212.6	7.7	186591	7	ACF62750	Acf62750 Cancer ba
	298	212.6	7.7	186591	7	ADB20869	Adb20869 MRP1 base
	299	212.6	7.7	186591	9	ADB87958	Adb87958 Human UGT
	300	212.6	7.7	186591	9	ADB96941	Adb96941 Human MDR
	301	212.6	7.7	186591	9	ADB92132	Adb92132 Human MDR
c	302	212.6	7.7	208648	7	ACF62735	Acf62735 Cancer ba
c	303	212.6	7.7	208648	7	ACF62740	Acf62740 Cancer ba
c	304	212.6	7.7	208648	7	ADB20850	Adb20850 MRP1 base
c	305	212.6	7.7	208648	7	ADB20855	Adb20855 MRP1 base
c	306	212.6	7.7	208648	9	ADB87944	Adb87944 Human UGT
c	307	212.6	7.7	208648	9	ADB87939	Adb87939 Human UGT
c	308	212.6	7.7	208648	9	ADB96922	Adb96922 Human MDR
c	309	212.6	7.7	208648	9	ADB96927	Adb96927 Human MDR
c	310	212.6	7.7	208648	9	ADB92113	Adb92113 Human MDR
c	311	212.6	7.7	208648	9	ADB92118	Adb92118 Human MDR
c	312	212.4	7.7	1586	3	AAC63420	Aac63420 Human sec
	313	212.4	7.7	3121	6	ABK51416	Abk51416 cDNA enco
	314	212.4	7.7	14401	9	ADC53172	Adc53172 Human adu
c	315	212	7.7	108316	9	ADC87336	Adc87336 Human GPC
c	316	211.8	7.7	849	4	AAH33054	Aah33054 Human col
	317	211.6	7.7	6418	4	AAK80271	Aak80271 Human imm
c	318	211.6	7.7	17324	4	AAL05039	Aal05039 Human rep
c	319	211.6	7.7	17324	4	ABL97932	Abl97932 Human tes
c	320	211.6	7.7	40645	7	ABX61804	Abx61804 Genomic D
c	321	211.6	7.7	40645	8	ADA49717	Ada49717 Genomic D
	322	211.2	7.7	50000	8	ADB16926	Adb16926 Human DYX
	323	211	7.7	2544	4	AAH14059	Aah14059 Human cDN
c	324	211	7.7	35651	4	AAF57595	Aaf57595 ATM compl
c	325	211	7.7	300000	9	ADE86352	Ade86352 Human PTP
	326	210.8	7.7	6096	6	ABK92513	Abk92513 Human pro
	327	210.8	7.7	25971	4	AAK86336	Aak86336 Human imm
	328	210.8	7.7	109906	6	ABK94411	Abk94411 DNA encod
c	329	210.4	7.7	10252	4	AAK90931	Aak90931 Human dig
c	330	210.4	7.7	10252	5	AAS31966	Aas31966 Human liv
c	331	210.4	7.7	10252	6	ABN90321	Abn90321 Human liv
	332	210.2	7.6	1743	4	AAI62586	Aai62586 Human bre
	333	210.2	7.6	1743	4	AAL03368	Aal03368 Human rep
	334	210.2	7.6	1746	4	AAI62587	Aai62587 Human bre
	335	210.2	7.6	1746	4	AAL03369	Aal03369 Human rep
	336	210.2	7.6	5281	4	AAL05101	Aal05101 Human rep
	337	210.2	7.6	5281	4	ABL97994	Abl97994 Human tes
	338	210.2	7.6	5284	4	AAL05100	Aal05100 Human rep
	339	210.2	7.6	5284	4	ABL97993	Abl97993 Human tes
c	340	210.2	7.6	19167	4	AAL05340	Aal05340 Human rep
c	341	210.2	7.6	19167	4	ABL98209	Abl98209 Human tes
	342	210.2	7.6	19167	5	ABA19101	Aba19101 Human ner
	343	210.2	7.6	32195	5	AAS32232	Aas32232 Human DNA
	344	210.2	7.6	32195	6	ABS67535	Abs67535 Novel hum
	345	210.2	7.6	201239	7	ACA64924	Aca64924 Human PLZ
	346	210	7.6	8003	4	AAK81410	Aak81410 Human imm
c	347	210	7.6	32249	4	AAL03071	Aal03071 Human rep
c	348	210	7.6	32249	4	ABL97407	Abl97407 Human tes
c	349	210	7.6	32249	5	ABA15833	Aba15833 Human ner
c	350	210	7.6	65464	7	ABX13172	Abx13172 Human gen
c	351	209.8	7.6	40267	6	AAS18958	Aas18958 Human cad
c	352	209.8	7.6	40267	7	ACC69655	Acc69655 Human CLA
c	353	209.8	7.6	44848	3	AAA75080	Aaa75080 Nucleotid
	354	209.6	7.6	119950	2	AAX90201	Aax90201 Human yes
	355	209.4	7.6	43543	6	ABQ82235	Abq82235 Human pho
c	356	209.2	7.6	87350	2	AAX83003	Aax83003 Human WRN
c	357	209.2	7.6	240000	7	ACD13446	Acd13446 Human DNA
	358	209	7.6	4823	2	AAT37384	Aat37384 Human thr
c	359	209	7.6	5952	9	ADB54002	Adb54002 PCNA geno
c	360	209	7.6	96595	8	ADA02726	Ada02726 Human SYK
c	361	209	7.6	96595	9	ADB72464	Adb72464 Human SYK
	362	208.8	7.6	1757	4	AAK82230	Aak82230 Human imm
	363	208.8	7.6	37783	4	AAK70780	Aak70780 Human imm
	364	208.8	7.6	37783	4	AAK76625	Aak76625 Human imm
	365	208.8	7.6	37783	4	AAK80913	Aak80913 Human imm
	366	208.8	7.6	44096	9	ADB68445	Adb68445 Human DCA
	367	208.8	7.6	48436	6	ABN89533	Abn89533 Human cor
	368	208.6	7.6	1446	4	AAH44758	Aah44758 Human DNA
	369	208.6	7.6	44211	4	AAK85974	Aak85974 Human imm
	370	208.6	7.6	96594	9	ADC85476	Adc85476 Human Msf
	371	208.6	7.6	96595	8	ADA02996	Ada02996 Human Msf
	372	208.6	7.6	96595	9	ADB72734	Adb72734 Human Msf
	373	208.6	7.6	106286	6	ABS55320_4	Continuation (5 of
	374	208.6	7.6	164702	7	ACF62730	Acf62730 Cancer ba
	375	208.6	7.6	164702	7	ADB20845	Adb20845 MRP1 base
	376	208.6	7.6	164702	9	ADB87934	Adb87934 Human UGT
	377	208.6	7.6	164702	9	ADB96917	Adb96917 Human MDR
	378	208.6	7.6	164702	9	ADB92108	Adb92108 Human MDR
	379	208.4	7.6	4857	4	ABK43042	Abk43042 Genomic s
	380	208.4	7.6	4857	8	ADB61198	Adb61198 Connectiv
	381	208.4	7.6	10113	4	AAS32838	Aas32838 Human gen
	382	208.4	7.6	11655	4	AAS32839	Aas32839 Human gen
c	383	208.4	7.6	183610	7	ACF62736	Acf62736 Cancer ba
c	384	208.4	7.6	183610	7	ADB20851	Adb20851 MRP1 base
c	385	208.4	7.6	183610	9	ADB87940	Adb87940 Human UGT
c	386	208.4	7.6	183610	9	ADB96923	Adb96923 Human MDR
c	387	208.4	7.6	183610	9	ADB92114	Adb92114 Human MDR
c	388	208.2	7.6	2616	9	ADB62241	Adb62241 Human cDN

	389	208.2	7.6	15547	4	AAK73540	Aak73540 Human imm
	390	208.2	7.6	15554	4	AAK73537	Aak73537 Human imm
c	391	208.2	7.6	39328	6	ABL91800	Abl91800 Human lip
c	392	208.2	7.6	100267	6	ABT11032	Abt11032 Human bre
c	393	208.2	7.6	260209	6	ABS56564	Abs56564 Human SUL
	394	208	7.6	10709	5	AAF97858	Aaf97858 Human neu
c	395	208	7.6	13646	5	AAF97857	Aaf97857 Human neu
c	396	208	7.6	27681	4	AAS36498	Aas36498 Human car
c	397	208	7.6	27681	4	AAS36497	Aas36497 Human car
c	398	208	7.6	27681	4	AAK85843	Aak85843 Human imm
c	399	208	7.6	27681	9	ADE47191	Ade47191 Human car
c	400	208	7.6	27681	9	ADE47192	Ade47192 Human car
	401	208	7.6	57248	6	ABK83563	Abk83563 Human cDN
c	402	208	7.6	106746	3	AAA10225	Aaa10225 Human PCT
c	403	208	7.6	121162	3	AAC66548	Aac66548 Human kin
	404	207.8	7.6	1701	2	AAV83945	Aav83945 Bacterial
	405	207.8	7.6	11820	3	AAA95944	Aaa95944 Human KLK
	406	207.8	7.6	53332	6	AAL48890	Aal48890 Human Pft
c	407	207.6	7.6	1767	9	ADB63552	Adb63552 Human cDN
	408	207.6	7.6	3125	9	ADB63201	Adb63201 Human cDN
	409	207.6	7.6	3143	4	AAD05229	Aad05229 Human sec
c	410	207.6	7.6	14969	4	AAK78763	Aak78763 Human imm
	411	207.4	7.5	4513	4	AAK69446	Aak69446 Human imm
	412	207.4	7.5	4823	2	AAT03943	Aat03943 Human thr
	413	207.4	7.5	4823	2	AAT04051	Aat04051 Sequence
	414	207.4	7.5	4823	3	AAZ37785	Aaz37785 Human thr
	415	207.4	7.5	4823	3	AAA51993	Aaa51993 Human thr
c	416	207.4	7.5	27756	8	ADA02570	Ada02570 Human Gat
c	417	207.4	7.5	27756	9	ADB72308	Adb72308 Human GAT
c	418	207.4	7.5	52242	8	ADA02666	Ada02666 Human MDM
c	419	207.4	7.5	52242	9	ADB72404	Adb72404 Human MDM
	420	207.4	7.5	59215	7	AAD36834	Aad36834 Human tra
c	421	207.4	7.5	220895	6	ABK84798	Abk84798 Human cDN
c	422	207.2	7.5	4026	4	AAL05213	Aal05213 Human rep
c	423	207.2	7.5	4026	4	ABL98096	Abl98096 Human tes
	424	207.2	7.5	47999	7	AAD52898	Aad52898 Human twe
c	425	207.2	7.5	139389	6	ABK84795	Abk84795 Human cDN
c	426	207.2	7.5	139389	8	ADB70369	Adb70369 PAC 6802
c	427	207	7.5	645	4	AAL35660	Aal35660 Human mus
c	428	207	7.5	645	7	ABX58648	Abx58648 cDNA enco
	429	207	7.5	683	4	AAL35691	Aal35691 Human mus
	430	207	7.5	683	7	ABX58679	Abx58679 cDNA enco
	431	207	7.5	7661	4	AAD16545	Aad16545 Human nov
c	432	207	7.5	7661	4	AAI63983	Aai63983 Human pol
c	433	207	7.5	7661	4	AAI62954	Aai62954 Human gen
	434	207	7.5	7661	6	ABS64135	Abs64135 Human apo
	435	207	7.5	7661	9	AAD60444	Aad60444 Human sec
	436	207	7.5	11696	4	AAD16546	Aad16546 Human nov
	437	207	7.5	11696	4	AAD16547	Aad16547 Human nov
c	438	207	7.5	11696	4	AAS33467	Aas33467 DNA encod
c	439	207	7.5	11696	4	AAS33468	Aas33468 DNA encod
c	440	207	7.5	11696	4	AAK72951	Aak72951 Human imm
c	441	207	7.5	11696	4	AAK72952	Aak72952 Human imm
c	442	207	7.5	11696	4	AAI63985	Aai63985 Human pol
c	443	207	7.5	11696	4	AAI63984	Aai63984 Human pol
c	444	207	7.5	11696	4	AAI62955	Aai62955 Human gen
c	445	207	7.5	11696	4	AAI62956	Aai62956 Human gen
	446	207	7.5	11696	6	ABS64137	Abs64137 Human apo
	447	207	7.5	11696	6	ABS64136	Abs64136 Human apo
	448	207	7.5	11696	9	AAD60445	Aad60445 Human sec
	449	207	7.5	11696	9	AAD60446	Aad60446 Human sec
c	450	207	7.5	45993	6	AAD36070	Aad36070 Human liv
c	451	207	7.5	144792	9	ADC87620	Adc87620 Human GPC
c	452	207	7.5	349981	9	ADC87619	Adc87619 Human GPC
	453	206.8	7.5	2786	4	AAH17600	Aah17600 Human cDN
	454	206.8	7.5	4361	4	AAK71194	Aak71194 Human imm
c	455	206.8	7.5	7654	4	AAS41693	Aas41693 Genomic s
c	456	206.8	7.5	7654	4	AAS41692	Aas41692 Genomic s
c	457	206.8	7.5	7654	4	AAS41694	Aas41694 Genomic s
c	458	206.8	7.5	7654	5	ABA20644	Aba20644 Human ner
c	459	206.8	7.5	7654	5	ABA20642	Aba20642 Human ner
c	460	206.8	7.5	7654	5	ABA20643	Aba20643 Human ner
c	461	206.8	7.5	10396	4	AAK86119	Aak86119 Human imm
	462	206.8	7.5	12050	4	AAK73194	Aak73194 Human imm
	463	206.8	7.5	21784	7	ABX16008	Abx16008 Human nov
	464	206.8	7.5	21784	9	AAD62371	Aad62371 Human pro
	465	206.8	7.5	23169	5	ABA15819	Aba15819 Human ner
	466	206.8	7.5	23172	5	ABA15818	Aba15818 Human ner
c	467	206.6	7.5	2506	5	AAD07713	Aad07713 Human sec
c	468	206.6	7.5	11790	4	AAK78997	Aak78997 Human imm
c	469	206.6	7.5	12970	4	AAL05001	Aal05001 Human rep
c	470	206.6	7.5	12970	4	ABL97894	Abl97894 Human tes
	471	206.6	7.5	15555	4	AAK73539	Aak73539 Human imm
	472	206.6	7.5	15558	4	AAK73538	Aak73538 Human imm
	473	206.6	7.5	18853	7	AAL51051	Aal51051 Human NAD
c	474	206.6	7.5	19597	4	AAK78483	Aak78483 Human imm
	475	206.6	7.5	54548	3	AAZ45596	Aaz45596 DNA seque
	476	206.4	7.5	560	4	AAH13458	Aah13458 Human cDN
c	477	206.4	7.5	2266	4	AAH16720	Aah16720 Human cDN
	478	206.4	7.5	4334	4	AAK80614	Aak80614 Human imm
	479	206.4	7.5	13334	5	ABA15786	Aba15786 Human ner
c	480	206.4	7.5	38997	6	AAD36069	Aad36069 Human sna
	481	206.2	7.5	43053	7	ABZ67535	Abz67535 Human sec
	482	206.2	7.5	43053	7	ABZ73951	Abz73951 Secreted
c	483	206.2	7.5	44354	4	AAK77833	Aak77833 Human imm
c	484	206.2	7.5	44354	4	AAK77836	Aak77836 Human imm
c	485	206.2	7.5	44354	4	AAK77837	Aak77837 Human imm
	486	206	7.5	7146	2	AAV38933	Aav38933 Nucleic a
c	487	206	7.5	9745	4	AAS36759	Aas36759 Human car
c	488	206	7.5	9745	9	ADE47453	Ade47453 Human car
c	489	206	7.5	10898	4	AAK86165	Aak86165 Human imm
c	490	206	7.5	12392	5	ABA15896	Aba15896 Human ner
	491	206	7.5	15577	2	AAV35616	Aav35616 SHOX gene
c	492	206	7.5	22813	4	AAK82016	Aak82016 Human imm
c	493	206	7.5	22813	4	AAK86303	Aak86303 Human imm
c	494	206	7.5	22813	4	AAK65271	Aak65271 Human imm
c	495	206	7.5	22813	4	AAK87333	Aak87333 Human imm
	496	206	7.5	32367	2	AAV35620	Aav35620 Human SHO
c	497	205.8	7.5	2147	4	ABK42851	Abk42851 Genomic s
c	498	205.8	7.5	2147	8	ADB61007	Adb61007 Connectiv
	499	205.8	7.5	2758	4	AAI58992	Aai58992 Human pol
	500	205.8	7.5	2758	8	ADB48974	Adb48974 Novel hum
	501	205.8	7.5	23307	4	AAL02958	Aal02958 Human rep
c	502	205.8	7.5	23307	4	AAL02842	Aal02842 Human rep
	503	205.8	7.5	23307	7	ADA57698	Ada57698 BAC fragm
	504	205.8	7.5	23307	7	ADA41565	Ada41565 Human sec
	505	205.8	7.5	23307	9	ADC74654	Adc74654 Human sec
	506	205.8	7.5	23307	9	ADD38122	Add38122 cDNA clon
c	507	205.8	7.5	36568	6	ABK50980	Abk50980 Human sol
c	508	205.8	7.5	47573	8	ADA02840	Ada02840 Human MAP
c	509	205.8	7.5	47573	9	ADB72578	Adb72578 Human MAP
c	510	205.8	7.5	47573	9	ADC85319	Adc85319 Mouse Map
c	511	205.8	7.5	95109	6	ABQ99654	Abq99654 Human mem
	512	205.8	7.5	133893	8	AAD54538	Aad54538 Human pho
c	513	205.6	7.5	3417	4	AAH18467	Aah18467 Human cDN
c	514	205.6	7.5	9620	4	AAL06207	Aal06207 Human rep
	515	205.6	7.5	12932	4	ABK42245	Abk42245 Genomic s
	516	205.6	7.5	12932	8	ADB60401	Adb60401 Connectiv
	517	205.6	7.5	29329	4	AAK78512	Aak78512 Human imm
	518	205.6	7.5	29329	4	AAK70791	Aak70791 Human imm
	519	205.6	7.5	29329	5	ABA18026	Aba18026 Human ner
	520	205.6	7.5	29329	5	ABA20511	Aba20511 Human ner
c	521	205.6	7.5	91080	6	ABX08336_16	Continuation (17 o
c	522	205.6	7.5	149480	6	ABL61947	Abl61947 Colon ade
c	523	205.6	7.5	149480	6	ABL68365	Abl68365 Kidney ca
c	524	205.6	7.5	149480	6	ABL61948	Abl61948 Colon ade
	525	205.6	7.5	203654	7	ABX16034	Abx16034 Human gen
	526	205.6	7.5	235033	2	AAV57926	Aav57926 Hereditar
	527	205.4	7.5	1735	4	AAL04953	Aal04953 Human rep
	528	205.4	7.5	1735	4	ABL97847	Abl97847 Human tes
c	529	205.4	7.5	1987	6	ABX17316	Abx17316 Human can
	530	205.4	7.5	4453	4	ABK43174	Abk43174 DNA encod
	531	205.4	7.5	5363	4	AAK65623	Aak65623 Human imm
c	532	205.4	7.5	11426	4	AAK84781	Aak84781 Human imm
	533	205.4	7.5	165199	6	ABK83460	Abk83460 Human cDN
c	534	205.4	7.5	175561	7	AAD55694	Aad55694 Human THB

	535	205.2	7.5	4077	4	AAK69605 Aak69605 Human imm
	536	205.2	7.5	4077	4	AAK69603 Aak69603 Human imm
c	537	205.2	7.5	8996	7	ADA41630 Ada41630 Human sec
c	538	205.2	7.5	8996	7	ACC50939 Acc50939 Human sec
c	539	205.2	7.5	8996	7	ABZ71537 Abz71537 Secreted
c	540	205.2	7.5	8996	8	ADB91908 Adb91908 Human sec
c	541	205.2	7.5	8996	9	ADC74700 Adc74700 Human sec
	542	205.2	7.5	32190	4	AAK89112 Aak89112 Human dig
	543	205.2	7.5	32190	5	AAS31862 Aas31862 Human liv
	544	205.2	7.5	32190	6	ABN90217 Abn90217 Human liv
c	545	205	7.5	3822	4	AAK82722 Aak82722 Human imm
c	546	205	7.5	5560	6	AAS98044 Aas98044 Human DNA
c	547	205	7.5	6122	7	ABZ42694 Abz42694 Human met
c	548	205	7.5	11627	4	AAL07363 Aal07363 Human rep
c	549	205	7.5	11627	4	ABL98832 Abl98832 Human tes
c	550	205	7.5	14012	7	AAD50004 Aad50004 Human Ras
c	551	205	7.5	16062	4	AAL05359 Aal05359 Human rep
c	552	205	7.5	16062	4	ABL98228 Abl98228 Human tes
	553	205	7.5	55235	4	AAK67426 Aak67426 Human imm
	554	205	7.5	110000	8	ADA13411_2 Continuation (3 of
c	555	205	7.5	143306	6	ABK49586 Abk49586 Human tra
	556	205	7.5	160552	4	AAD02697 Aad02697 Human gly
c	557	204.8	7.4	786	4	AAH98887 Aah98887 Human EST
	558	204.8	7.4	6319	6	ABK97631 Abk97631 Human pro
c	559	204.8	7.4	7703	4	AAK90904 Aak90904 Human dig
c	560	204.8	7.4	7703	4	AAK90945 Aak90945 Human dig
c	561	204.8	7.4	7703	5	AAS31980 Aas31980 Human liv
c	562	204.8	7.4	7703	5	AAS31939 Aas31939 Human liv
c	563	204.8	7.4	7703	6	ABN90335 Abn90335 Human liv
c	564	204.8	7.4	7703	6	ABN90294 Abn90294 Human liv
c	565	204.8	7.4	55827	7	ABX13671 Abx13671 Human pro
c	566	204.8	7.4	55827	7	ACA60949 Aca60949 DNA encod
c	567	204.8	7.4	78539	7	ACA64942 Aca64942 Human FRA
c	568	204.6	7.4	1413	3	AAD00684 Aad00684 Human Hyd
	569	204.6	7.4	6892	4	AAL37405 Aal37405 Human mus
	570	204.6	7.4	6892	7	ABX60393 Abx60393 cDNA enco
c	571	204.6	7.4	13968	4	AAS36724 Aas36724 Human car
c	572	204.6	7.4	13968	9	ADE47418 Ade47418 Human car
	573	204.6	7.4	29163	4	AAL05121 Aal05121 Human rep
	574	204.6	7.4	29163	4	ABL98013 Abl98013 Human tes
c	575	204.6	7.4	30393	4	AAK67239 Aak67239 Human imm
c	576	204.6	7.4	39325	4	AAK81660 Aak81660 Human imm
	577	204.6	7.4	40645	7	ABX61804 Abx61804 Genomic D
	578	204.6	7.4	40645	8	ADA49717 Ada49717 Genomic D
	579	204.6	7.4	43056	7	ABZ67534 Abz67534 Human sec
	580	204.6	7.4	43056	7	ABZ73950 Abz73950 Secreted
	581	204.6	7.4	96595	8	ADA02726 Ada02726 Human SYK
	582	204.6	7.4	96595	9	ADB72464 Adb72464 Human SYK
	583	204.6	7.4	108316	9	ADC87336 Adc87336 Human GPC
	584	204.6	7.4	110000	7	ABZ79565_0 Abz79565 CLLD8 and
c	585	204.6	7.4	149671	6	ABK84797 Abk84797 Human cDN
c	586	204.6	7.4	149671	8	ADB70361 Adb70361 Moesin cD
c	587	204.4	7.4	788	6	ABQ88931 Abq88931 Human pro
c	588	204.4	7.4	1332	4	AAS16142 Aas16142 Human hyd
	589	204.4	7.4	5876	4	AAL05576 Aal05576 Human rep
c	590	204.4	7.4	10434	4	AAS36168 Aas36168 Human car
c	591	204.4	7.4	10434	9	ADE46862 Ade46862 Human car
c	592	204.4	7.4	45546	2	AAX23520 Aax23520 Human kid
	593	204.4	7.4	90541	6	ABS52847 Abs52847 Human SR
	594	204.4	7.4	93390	9	ADD71350 Add71350 Glutamine
	595	204.4	7.4	96595	8	ADA03068 Ada03068 Human PPP
	596	204.4	7.4	96595	9	ADB72806 Adb72806 Human PPP
	597	204.4	7.4	96596	8	ADA66352 Ada66352 Human PPP
c	598	204.4	7.4	113033	7	AAL54213 Aal54213 SR protei
	599	204.4	7.4	218336	7	ABQ76678 Abq76678 Androgen
	600	204.4	7.4	326014	6	ABK89296 Abk89296 Human gen
	601	204.2	7.4	9192	4	ABK42359 Abk42359 Genomic s
	602	204.2	7.4	9192	4	AAL35853 Aal35853 Human mus
	603	204.2	7.4	9192	7	ABX58841 Abx58841 cDNA enco
	604	204.2	7.4	9192	8	ADB60515 Adb60515 Connectiv
	605	204.2	7.4	17803	4	AAK68676 Aak68676 Human imm
c	606	204.2	7.4	51474	5	AAF97846 Aaf97846 Human neu
	607	204.2	7.4	99014	6	ABN96931 Abn96931 Gene #342
	608	204.2	7.4	107820	4	AAD16230 Aad16230 Human ATP
c	609	204.2	7.4	122748	6	ABT10719 Abt10719 Human bre
	610	204.2	7.4	172984	7	ACF62733 Acf62733 Cancer ba
	611	204.2	7.4	172984	7	ADB20848 Adb20848 MRP1 base
	612	204.2	7.4	172984	9	ADB87937 Adb87937 Human UGT
	613	204.2	7.4	172984	9	ADB96920 Adb96920 Human MDR
	614	204.2	7.4	172984	9	ADB92111 Adb92111 Human MDR
c	615	204	7.4	1841	2	AAZ27262 Aaz27262 Human sec
	616	204	7.4	15306	4	AAL07531 Aal07531 Human rep
	617	204	7.4	20530	4	AAL05564 Aal05564 Human rep
c	618	204	7.4	20530	4	AAS32913 Aas32913 Human gen
	619	204	7.4	47319	4	AAK72230 Aak72230 Human imm
	620	204	7.4	47319	4	AAK64813 Aak64813 Human imm
c	621	204	7.4	51469	4	AAK78813 Aak78813 Human imm
c	622	204	7.4	51469	4	AAK70270 Aak70270 Human imm
c	623	204	7.4	51469	4	AAK69322 Aak69322 Human imm
c	624	204	7.4	58822	8	ADA02540 Ada02540 Human TCO
c	625	204	7.4	58822	9	ADB72278 Adb72278 Human TCO
c	626	204	7.4	59554	8	ADA02696 Ada02696 Human TK2
c	627	204	7.4	59554	9	ADB72434 Adb72434 Human TK2
c	628	204	7.4	236303	4	AAS11614 Aas11614 Human gen
c	629	203.8	7.4	2124	4	AAH18410 Aah18410 Human cDN
	630	203.8	7.4	2547	9	ADB62665 Adb62665 Human cDN
c	631	203.8	7.4	5990	4	AAK67673 Aak67673 Human imm
	632	203.8	7.4	15515	7	AAL53548 Aal53548 Genomic D
c	633	203.8	7.4	28818	4	AAL35901 Aal35901 Human mus
c	634	203.8	7.4	28818	7	ABX58889 Abx58889 cDNA enco
	635	203.8	7.4	51469	4	AAK78813 Aak78813 Human imm
	636	203.8	7.4	51469	4	AAK70270 Aak70270 Human imm
	637	203.8	7.4	51469	4	AAK69322 Aak69322 Human imm
	638	203.8	7.4	107818	8	AAL57572 Aal57572 Human pho
c	639	203.8	7.4	122888	6	ABK83569 Abk83569 Human cDN
c	640	203.6	7.4	4412	4	AAH57372 Aah57372 Human hea
	641	203.6	7.4	5088	4	AAS36260 Aas36260 Human car
c	642	203.6	7.4	5088	4	AAI62690 Aai62690 Human bre
	643	203.6	7.4	5088	4	AAK72344 Aak72344 Human imm
c	644	203.6	7.4	5088	4	AAK67935 Aak67935 Human imm
	645	203.6	7.4	5088	4	AAK76893 Aak76893 Human imm
c	646	203.6	7.4	5088	4	AAL06809 Aal06809 Human rep
	647	203.6	7.4	5088	4	AAL02935 Aal02935 Human rep
	648	203.6	7.4	5088	4	AAL03696 Aal03696 Human rep
	649	203.6	7.4	5088	4	ABA07879 Aba07879 Human ova
	650	203.6	7.4	5088	5	ABA18124 Aba18124 Human ner
	651	203.6	7.4	5088	7	ABZ68072 Abz68072 Human sec
	652	203.6	7.4	5088	7	ABZ74538 Abz74538 Secreted
	653	203.6	7.4	5088	7	ADA98933 Ada98933 Human sec
	654	203.6	7.4	5088	7	ADA44537 Ada44537 Human sec
	655	203.6	7.4	5088	9	ADC20971 Adc20971 Human sec
	656	203.6	7.4	5088	9	ADE46954 Ade46954 Human car
c	657	203.6	7.4	27869	4	AAK66517 Aak66517 Human imm
	658	203.6	7.4	27869	5	ABA19635 Aba19635 Human ner
	659	203.6	7.4	30000	9	AAD62162 Aad62162 Human hae
c	660	203.6	7.4	154902	6	ABQ88198 Abq88198 Human ost
c	661	203.4	7.4	471	8	ACH26296 Ach26296 Human adu
c	662	203.4	7.4	708	8	ADB81875 Adb81875 Human cDN
c	663	203.4	7.4	1581	4	AAH13737 Aah13737 Human cDN
c	664	203.4	7.4	2138	4	AAL06186 Aal06186 Human rep
c	665	203.4	7.4	2138	4	ABL98751 Abl98751 Human tes
c	666	203.4	7.4	3740	4	AAL07296 Aal07296 Human rep
	667	203.4	7.4	14209	4	AAK89137 Aak89137 Human dig
c	668	203.4	7.4	32169	5	ABA14358 Aba14358 Human ner
c	669	203.4	7.4	32249	4	AAL05336 Aal05336 Human rep
c	670	203.4	7.4	32249	4	ABL98205 Abl98205 Human tes
	671	203.4	7.4	38374	6	ABL68824 Abl68824 Kidney ca
	672	203.4	7.4	38374	6	ABL68363 Abl68363 Kidney ca
	673	203.4	7.4	38374	6	ABL68364 Abl68364 Kidney ca
	674	203.4	7.4	38374	6	ABN96966 Abn96966 Gene #346
c	675	203.4	7.4	62804	6	AAD39317 Aad39317 Human cal
c	676	203.4	7.4	62804	7	ABX10916 Abx10916 Genomic D
c	677	203.4	7.4	75899	6	ABK85261 Abk85261 Human gen
	678	203.4	7.4	113000	8	ABT44365 Abt44365 Partial g
	679	203.4	7.4	325791	4	AAS43104 Aas43104 Human Oes
	680	203.2	7.4	1293	4	AAK72006 Aak72006 Human imm

	681	203.2	7.4	4352	4	AAI58667	Aai58667 Human pol
	682	203.2	7.4	4352	8	ADB48645	Adb48645 Novel hum
	683	203.2	7.4	4377	4	AAI60453	Aai60453 Human pol
	684	203.2	7.4	7970	4	AAS27697	Aas27697 DNA encod
	685	203.2	7.4	7970	9	ADB94500	Adb94500 Novel hum
	686	203.2	7.4	9193	6	AAD46346	Aad46346 Human nuc
c	687	203.2	7.4	10587	4	AAK82382	Aak82382 Human imm
c	688	203.2	7.4	13919	6	ABK86218	Abk86218 DNA encod
	689	203.2	7.4	13919	6	ABK86221	Abk86221 AIP-1/FLA
	690	203.2	7.4	13919	6	ABK86220	Abk86220 AIP-1/FLA
	691	203.2	7.4	17601	6	ABL52077	Abl52077 Human per
	692	203.2	7.4	17906	5	ABA20606	Aba20606 Human ner
	693	203.2	7.4	17909	5	ABA20605	Aba20605 Human ner
	694	203.2	7.4	17993	6	AAD46721	Aad46721 Human tra
c	695	203.2	7.4	21404	6	ABK86229	Abk86229 AIP-1/FLA
c	696	203.2	7.4	32199	4	AAK90296	Aak90296 Human dig
c	697	203.2	7.4	32199	4	AAI57673	Aai57673 Human col
c	698	203.2	7.4	32199	6	ABS99850	Abs99850 Genomic D
c	699	203.2	7.4	32199	9	ADB93003	Adb93003 Human col
	700	203.2	7.4	34269	4	AAK68677	Aak68677 Human imm
	701	203.2	7.4	34269	4	AAK85168	Aak85168 Human imm
c	702	203.2	7.4	57296	4	AAK78847	Aak78847 Human imm
c	703	203.2	7.4	57296	4	AAK78170	Aak78170 Human imm
c	704	203.2	7.4	57296	4	AAK79364	Aak79364 Human imm
c	705	203.2	7.4	57296	4	AAK86799	Aak86799 Human imm
c	706	203.2	7.4	86080	6	ABQ88164	Abq88164 Human ost
c	707	203.2	7.4	86080	6	ABK83561	Abk83561 Human cDN
c	708	203.2	7.4	86080	9	ADD71054	Add71054 Human pro
	709	203.2	7.4	185371	6	ABT10718	Abt10718 Human bre
	710	203	7.4	883	9	ADC86650	Adc86650 Human GPC
	711	203	7.4	2420	4	AAH15922	Aah15922 Human cDN
	712	203	7.4	14525	4	AAK70511	Aak70511 Human imm
c	713	203	7.4	21666	8	ADA02702	Ada02702 Human Nup
c	714	203	7.4	21666	9	ADB72440	Adb72440 Human CA
	715	203	7.4	44196	4	AAK77458	Aak77458 Human imm
	716	203	7.4	59588	9	ADC87426	Adc87426 Human GPC
	717	203	7.4	72604	2	AAZ10752	Aaz10752 Genomic s
	718	203	7.4	72604	6	ABK43231	Abk43231 Human HKN
	719	203	7.4	96591	9	ADC85301	Adc85301 Mouse Sos
	720	203	7.4	96592	8	ADA02822	Ada02822 Human SOS
	721	203	7.4	96592	9	ADB72560	Adb72560 Human SOS
c	722	203	7.4	113000	8	ABT44365	Abt44365 Partial g
c	723	203	7.4	325791	4	AAS43104	Aas43104 Human Oes
	724	202.8	7.4	4915	4	AAK88961	Aak88961 Human dig
	725	202.8	7.4	4915	5	AAS31830	Aas31830 Human liv
	726	202.8	7.4	4915	6	ABN90185	Abn90185 Human liv
c	727	202.8	7.4	8923	4	AAK87591	Aak87591 Human imm
	728	202.8	7.4	8923	7	ABZ68191	Abz68191 Human sec
	729	202.8	7.4	8923	7	ABZ74669	Abz74669 Secreted
	730	202.8	7.4	12280	4	AAK76794	Aak76794 Human imm
c	731	202.8	7.4	12280	5	ABA19083	Aba19083 Human ner
c	732	202.8	7.4	24801	7	ABZ20990	Abz20990 Human thy
c	733	202.8	7.4	25541	4	AAK76168	Aak76168 Human imm
	734	202.8	7.4	32146	4	AAS28363	Aas28363 Genomic s
	735	202.8	7.4	32248	4	AAS28368	Aas28368 Genomic s
c	736	202.8	7.4	34435	4	AAK76172	Aak76172 Human imm
	737	202.8	7.4	44100	3	ABN97975	Abn97975 Human ret
c	738	202.8	7.4	72215	4	AAK86832	Aak86832 Human imm
c	739	202.8	7.4	112132	6	ABK90888	Abk90888 Human ATP
	740	202.8	7.4	128978	6	ABK83459	Abk83459 Human cDN
	741	202.8	7.4	128978	7	AAD54587	Aad54587 Human LIM
c	742	202.8	7.4	136328	6	ABZ35015	Abz35015 Human gen
	743	202.8	7.4	138169	3	AAA34791	Aaa34791 Human ade
	744	202.8	7.4	141589	3	AAA35005	Aaa35005 Human ade
	745	202.8	7.4	141589	3	AAA35030	Aaa35030 Human ade
	746	202.8	7.4	141589	3	AAF21152	Aaf21152 Human low
	747	202.8	7.4	141589	3	AAF20913	Aaf20913 Human ELA
	748	202.8	7.4	141589	3	AAF21127	Aaf21127 Human low
	749	202.8	7.4	141589	7	ABZ96821	Abz96821 Human nuc
	750	202.8	7.4	141589	7	ABZ96607	Abz96607 Human ELA
	751	202.8	7.4	141589	7	ABZ96846	Abz96846 Human nuc
	752	202.8	7.4	146981	3	AAF21442	Aaf21442 Human ELA
	753	202.8	7.4	146982	7	ABZ97136	Abz97136 Human ELA
	754	202.8	7.4	209273	3	AAF21437	Aaf21437 Human fac
	755	202.8	7.4	209274	7	ABZ97131	Abz97131 Human enz
	756	202.6	7.4	1406	9	ADC78806	Adc78806 Human PRO
	757	202.6	7.4	1406	9	ADC78892	Adc78892 Human PRO
	758	202.6	7.4	10012	6	ABL55889	Abl55889 Human sma
c	759	202.6	7.4	13104	7	ABT23360	Abt23360 Endotheli
	760	202.6	7.4	15203	9	ADC87166	Adc87166 Human GPC
	761	202.6	7.4	24888	8	ADA02624	Ada02624 Human NFK
	762	202.6	7.4	24888	9	ADB72362	Adb72362 Human NFK
c	763	202.6	7.4	32146	4	AAS28363	Aas28363 Genomic s
c	764	202.6	7.4	32152	4	AAK89020	Aak89020 Human dig
	765	202.6	7.4	32152	4	AAK91534	Aak91534 Human dig
	766	202.6	7.4	32152	4	AAI57791	Aai57791 Human col
c	767	202.6	7.4	32152	5	AAS39621	Aas39621 Genomic s
	768	202.6	7.4	32152	6	ABS99968	Abs99968 Genomic D
c	769	202.6	7.4	32152	8	ADB32581	Adb32581 Human nov
	770	202.6	7.4	32152	9	ADB93121	Adb93121 Human col
c	771	202.6	7.4	32248	4	AAS28368	Aas28368 Genomic s
	772	202.6	7.4	34435	4	AAK76172	Aak76172 Human imm
c	773	202.6	7.4	36933	4	AAK66362	Aak66362 Human imm
	774	202.6	7.4	38918	9	ADC87242	Adc87242 Human GPC
c	775	202.6	7.4	53106	8	ADA03044	Ada03044 Human BAT
c	776	202.6	7.4	53106	8	ADA66328	Ada66328 Human BAT
c	777	202.6	7.4	53106	9	ADB72782	Adb72782 Human BAT
	778	202.6	7.4	128034	9	ADE43582	Ade43582 Polymorph
	779	202.6	7.4	128034	9	ADE43581	Ade43581 Human IDE
	780	202.6	7.4	177380	7	ACF62751	Acf62751 Cancer ba
	781	202.6	7.4	177380	7	ADB20870	Adb20870 MRP1 base
	782	202.6	7.4	177380	9	ADB87959	Adb87959 Human UGT
	783	202.6	7.4	177380	9	ADB96942	Adb96942 Human MDR
	784	202.6	7.4	177380	9	ADB92133	Adb92133 Human MDR
c	785	202.6	7.4	202100	9	ADE43315	Ade43315 Human IDE
	786	202.6	7.4	300000	9	ADE86352	Ade86352 Human PTP
c	787	202.4	7.4	669	6	ABN62557	Abn62557 Human can
	788	202.4	7.4	1248	4	AAK69413	Aak69413 Human imm
	789	202.4	7.4	3702	4	AAK72556	Aak72556 Human imm
c	790	202.4	7.4	4255	4	AAK84530	Aak84530 Human imm
	791	202.4	7.4	4825	7	ACC47355	Acc47355 Human pro
c	792	202.4	7.4	6566	6	ABK89372	Abk89372 Human mon
c	793	202.4	7.4	6906	4	AAK66219	Aak66219 Human imm
c	794	202.4	7.4	10483	4	AAK80686	Aak80686 Human imm
	795	202.4	7.4	11968	4	AAL05563	Aal05563 Human rep
c	796	202.4	7.4	16326	4	AAK69677	Aak69677 Human imm
	797	202.4	7.4	19199	4	AAK70995	Aak70995 Human imm
	798	202.4	7.4	22013	4	AAK85635	Aak85635 Human imm
	799	202.4	7.4	22013	5	ABA16084	Aba16084 Human ner
	800	202.4	7.4	23989	4	AAK72555	Aak72555 Human imm
c	801	202.4	7.4	27754	6	ABQ72998	Abq72998 Human tra
	802	202.4	7.4	31766	6	AAD22781	Aad22781 Human sul
	803	202.4	7.4	31766	6	AAL50687	Aal50687 Human sul
	804	202.4	7.4	32249	5	ABA17155	Aba17155 Human ner
	805	202.4	7.4	32874	8	ADA02648	Ada02648 Human TBX
	806	202.4	7.4	32874	9	ADB72386	Adb72386 Human TBX
c	807	202.4	7.4	46050	7	ABX13974	Abx13974 Human Ras
c	808	202.4	7.4	110000	7	ABZ79565_3	Continuation (4 of
	809	202.2	7.4	1868	5	ABA19717	Aba19717 Human ner
c	810	202.2	7.4	2024	6	ABZ82521	Abz82521 Human sec
	811	202.2	7.4	4600	7	ACC49433	Acc49433 Human CD3
	812	202.2	7.4	13821	4	AAL36230	Aal36230 Human mus
	813	202.2	7.4	13821	7	ABX59218	Abx59218 cDNA enco
	814	202.2	7.4	15977	4	AAF63407	Aaf63407 Human CD3
c	815	202.2	7.4	22428	4	AAS41759	Aas41759 Genomic s
	816	202.2	7.4	22428	7	ABZ67767	Abz67767 Human sec
	817	202.2	7.4	22428	7	ABZ74201	Abz74201 Secreted
	818	202.2	7.4	22428	7	ADA98730	Ada98730 Human sec
	819	202.2	7.4	23378	4	ABK42627	Abk42627 Genomic s
	820	202.2	7.4	23378	4	AAK89555	Aak89555 Human dig
	821	202.2	7.4	23378	8	ADB60783	Adb60783 Connectiv
	822	202.2	7.4	27681	4	AAS36498	Aas36498 Human car
	823	202.2	7.4	27681	4	AAS36497	Aas36497 Human car
	824	202.2	7.4	27681	4	AAK85843	Aak85843 Human imm
	825	202.2	7.4	27681	9	ADE47191	Ade47191 Human car
	826	202.2	7.4	27681	9	ADE47192	Ade47192 Human car

	827	202.2	7.4	31140	4	AAL06791	Aal06791 Human rep
	828	202.2	7.4	31140	4	ABA08065	Aba08065 Human ova
	829	202.2	7.4	32042	2	AAZ09252	Aaz09252 Human CAR
	830	202.2	7.4	32042	4	AAF30011	Aaf30011 Human CAR
	831	202.2	7.4	32042	6	ABK89285	Abk89285 Human cas
	832	202.2	7.4	32042	6	AAL40765	Aal40765 Genomic D
	833	202.2	7.4	34001	8	ABT44144	Abt44144 Complemen
	834	202.2	7.4	44400	4	AAS12438	Aas12438 DNA encod
c	835	202.2	7.4	53332	6	AAL48890	Aal48890 Human Pft
	836	202.2	7.4	80595	2	AAV83939	Aav83939 HC-contig
c	837	202.2	7.4	96595	8	ADA03068	Ada03068 Human PPP
c	838	202.2	7.4	96595	9	ADB72806	Adb72806 Human PPP
c	839	202.2	7.4	96596	8	ADA66352	Ada66352 Human PPP
c	840	202	7.3	2013	6	ACC57389	Acc57389 Human mac
	841	202	7.3	5304	7	ADA98924	Ada98924 Human sec
	842	202	7.3	5304	7	ADA44528	Ada44528 Human sec
	843	202	7.3	5304	9	ADC20962	Adc20962 Human sec
	844	202	7.3	9731	4	AAL04943	Aal04943 Human rep
	845	202	7.3	9731	4	ABL97837	Abl97837 Human tes
	846	202	7.3	20601	4	AAK79760	Aak79760 Human imm
	847	202	7.3	22930	4	AAK78545	Aak78545 Human imm
c	848	202	7.3	32193	4	AAS27848	Aas27848 DNA encod
c	849	202	7.3	32193	9	ADB94651	Adb94651 Novel hum
	850	202	7.3	33942	4	AAK86218	Aak86218 Human imm
	851	202	7.3	33942	4	AAK80281	Aak80281 Human imm
	852	202	7.3	46366	4	AAK82098	Aak82098 Human imm
c	853	202	7.3	65854	4	AAK86282	Aak86282 Human imm
c	854	202	7.3	98690	6	ABK12169	Abk12169 Human DNA
	855	202	7.3	142519	7	AAD54634	Aad54634 Human chr
	856	201.8	7.3	14747	4	AAF63406	Aaf63406 Human CD3
	857	201.8	7.3	20733	8	AAD58742	Aad58742 Human tra
	858	201.8	7.3	35962	7	ABZ09862	Abz09862 Human 5'
c	859	201.8	7.3	99014	6	ABN96931	Abn96931 Gene #342
	860	201.8	7.3	110000	6	ABS55320_3	Continuation (4 of
	861	201.8	7.3	115756	7	ACD13448	Acd13448 Human DNA
c	862	201.8	7.3	129722	6	ABQ88117	Abq88117 Human ost
c	863	201.8	7.3	133893	8	AAD54538	Aad54538 Human pho
	864	201.8	7.3	237326	2	AAV57903	Aav57903 Hereditar
	865	201.8	7.3	341511	6	ABS55200	Abs55200 Genomic D
	866	201.6	7.3	587	4	AAH04536	Aah04536 Human cDN
c	867	201.6	7.3	26048	4	AAS36056	Aas36056 Human car
c	868	201.6	7.3	26048	9	ADE46750	Ade46750 Human car
c	869	201.6	7.3	26427	5	ABA20763	Aba20763 Human ner
c	870	201.6	7.3	26427	5	ABA20762	Aba20762 Human ner
c	871	201.6	7.3	32204	4	AAK89019	Aak89019 Human dig
	872	201.6	7.3	32204	4	AAK91533	Aak91533 Human dig
	873	201.6	7.3	32204	4	AAI57790	Aai57790 Human col
c	874	201.6	7.3	32204	5	AAS39620	Aas39620 Genomic s
	875	201.6	7.3	32204	6	ABS99967	Abs99967 Genomic D
c	876	201.6	7.3	32204	8	ADB32580	Adb32580 Human nov
	877	201.6	7.3	32204	9	ADB93120	Adb93120 Human col
	878	201.6	7.3	154902	6	ABQ88198	Abq88198 Human ost
c	879	201.6	7.3	167163	9	ADE82948	Ade82948 Human PVT
c	880	201.6	7.3	188888	6	ABQ75562	Abq75562 Human rel
	881	201.4	7.3	1291	4	AAK72007	Aak72007 Human imm
c	882	201.4	7.3	1426	4	AAI59074	Aai59074 Human pol
c	883	201.4	7.3	1426	8	ADB49057	Adb49057 Novel hum
	884	201.4	7.3	1640	4	AAH13827	Aah13827 Human cDN
c	885	201.4	7.3	2869	4	AAH17472	Aah17472 Human cDN
c	886	201.4	7.3	3173	4	AAC82670	Aac82670 Human 7TM
c	887	201.4	7.3	5491	4	AAK69044	Aak69044 Human imm
c	888	201.4	7.3	7240	4	AAD04467	Aad04467 Human ins
c	889	201.4	7.3	7240	4	AAH31267	Aah31267 Human ins
c	890	201.4	7.3	7240	4	AAH31170	Aah31170 Human ins
c	891	201.4	7.3	7240	5	AAH50570	Aah50570 Insulin r
c	892	201.4	7.3	7240	6	ABQ72725	Abq72725 Human ins
c	893	201.4	7.3	7240	8	AAL62772	Aal62772 Human ins
c	894	201.4	7.3	8966	2	AAZ09581	Aaz09581 Human Apo
c	895	201.4	7.3	8966	6	ABN95588	Abn95588 Gene #208
c	896	201.4	7.3	16337	4	AAL37103	Aal37103 Human mus
c	897	201.4	7.3	16337	7	ABX60091	Abx60091 cDNA enco
c	898	201.4	7.3	17146	4	AAL37485	Aal37485 Human mus
c	899	201.4	7.3	17146	7	ABX60473	Abx60473 cDNA enco
c	900	201.4	7.3	23107	8	ADA02762	Ada02762 Human RUN
c	901	201.4	7.3	23107	9	ADB72500	Adb72500 Human Run
c	902	201.4	7.3	23107	9	ADC85242	Adc85242 Human Run
c	903	201.4	7.3	30568	4	AAL37486	Aal37486 Human mus
c	904	201.4	7.3	30568	7	ABX60474	Abx60474 cDNA enco
c	905	201.4	7.3	48045	4	AAK84730	Aak84730 Human imm
c	906	201.4	7.3	48045	4	AAK85984	Aak85984 Human imm
	907	201.4	7.3	117574	6	AAL45288	Aal45288 Human KCN
	908	201.4	7.3	185035	6	ABT10147	Abt10147 Human bre
	909	201.4	7.3	185035	7	ACA64951	Aca64951 Human FEN
c	910	201.4	7.3	197997	7	AAL54074	Aal54074 Human tra
	911	201.4	7.3	226475	8	AAD58279	Aad58279 Human tum
	912	201.4	7.3	268685	6	ABS56563	Abs56563 Human SUL
c	913	201.2	7.3	2345	5	ABA17201	Aba17201 Human ner
c	914	201.2	7.3	2345	5	ABA17202	Aba17202 Human ner
	915	201.2	7.3	4329	4	AAS30492	Aas30492 DNA encod
	916	201.2	7.3	4329	4	AAL06272	Aal06272 Human rep
c	917	201.2	7.3	5067	4	AAK72175	Aak72175 Human imm
	918	201.2	7.3	11960	4	AAL05813	Aal05813 Human rep
	919	201.2	7.3	11960	4	ABL98377	Abl98377 Human tes
	920	201.2	7.3	23324	8	AAL56668	Aal56668 Human G-C
	921	201.2	7.3	23885	4	AAK73173	Aak73173 Human imm
	922	201.2	7.3	23885	4	AAK70103	Aak70103 Human imm
c	923	201.2	7.3	29430	5	ABA82621	Aba82621 Human HBM
c	924	201.2	7.3	29430	7	ACC45362	Acc45362 Human HBM
c	925	201.2	7.3	29430	9	ADB98062	Adb98062 HBM-relat
c	926	201.2	7.3	29430	9	ADE82431	Ade82431 Human DNA
	927	201.2	7.3	30724	7	ABZ68192	Abz68192 Human sec
	928	201.2	7.3	30724	7	ABZ74670	Abz74670 Secreted
	929	201.2	7.3	30803	4	AAK68410	Aak68410 Human imm
c	930	201.2	7.3	30810	6	ABK22780	Abk22780 Human hig
c	931	201.2	7.3	32190	4	AAI62927	Aai62927 Human gen
c	932	201.2	7.3	32249	4	AAI62932	Aai62932 Human gen
c	933	201.2	7.3	34878	4	AAK66167	Aak66167 Human imm
c	934	201.2	7.3	34878	4	AAK80088	Aak80088 Human imm
c	935	201.2	7.3	36785	4	AAK82208	Aak82208 Human imm
c	936	201.2	7.3	39068	4	AAK71820	Aak71820 Human imm
c	937	201.2	7.3	39068	4	AAK85294	Aak85294 Human imm
	938	201.2	7.3	39068	4	AAK73078	Aak73078 Human imm
	939	201.2	7.3	39068	4	AAK87544	Aak87544 Human imm
	940	201.2	7.3	39068	7	ABZ68184	Abz68184 Human sec
	941	201.2	7.3	39068	7	ABZ74662	Abz74662 Secreted
	942	201.2	7.3	39110	4	AAK73087	Aak73087 Human imm
c	943	201.2	7.3	39110	4	AAK71825	Aak71825 Human imm
	944	201.2	7.3	39110	4	AAK87555	Aak87555 Human imm
	945	201.2	7.3	39110	7	ABZ68185	Abz68185 Human sec
	946	201.2	7.3	39110	7	ABZ74663	Abz74663 Secreted
	947	201.2	7.3	52216	4	AAH28355	Aah28355 Nucleotid
	948	201.2	7.3	52216	6	ABL50307	Abl50307 Human mus
c	949	201.2	7.3	107602	6	AAK99657	Aak99657 DNA of th
c	950	201.2	7.3	107612	6	ABL54503	Abl54503 Human PAC
c	951	201.2	7.3	110000	7	ACF42745_0	Acf42745 Human ALM
	952	201.2	7.3	112460	6	ABK83567	Abk83567 Human cDN
c	953	201	7.3	1267	2	AAX97978	Aax97978 Human sec
c	954	201	7.3	1267	8	ADA11550	Ada11550 Human cDN
c	955	201	7.3	2611	6	ABS76421	Abs76421 cDNA enco
	956	201	7.3	3234	2	AAQ92781	Aaq92781 Human thy
c	957	201	7.3	4549	4	AAK72174	Aak72174 Human imm
c	958	201	7.3	4727	4	AAK65762	Aak65762 Human imm
c	959	201	7.3	8458	4	AAK72176	Aak72176 Human imm
c	960	201	7.3	9500	7	AAD52779	Aad52779 Human Fra
c	961	201	7.3	21968	7	AAD51326	Aad51326 Human rec
	962	201	7.3	22900	4	AAK82210	Aak82210 Human imm
	963	201	7.3	23580	4	AAK83578	Aak83578 Human imm
c	964	201	7.3	23580	4	AAK66230	Aak66230 Human imm
c	965	201	7.3	25423	4	AAK90279	Aak90279 Human dig
c	966	201	7.3	25423	4	AAI57656	Aai57656 Human col
c	967	201	7.3	25423	6	ABS99833	Abs99833 Genomic D
c	968	201	7.3	25423	9	ADB92986	Adb92986 Human col
c	969	201	7.3	25424	4	AAK90280	Aak90280 Human dig
c	970	201	7.3	25424	4	AAI57657	Aai57657 Human col
c	971	201	7.3	25424	6	ABS99834	Abs99834 Genomic D
c	972	201	7.3	25424	9	ADB92987	Adb92987 Human col

973	201	7.3	25541	4	AAK76168	Aak76168 Human imm	1046	200.4	7.3	631	3	AAA16349	Aaa16349 Human col
974	201	7.3	27960	4	AAK69779	Aak69779 Human imm	1047	200.4	7.3	1419	4	AAI60860	Aai60860 Human pol
975	201	7.3	27960	4	AAK73320	Aak73320 Human imm	1048	200.4	7.3	1917	9	ADB62783	Adb62783 Human cDN
c 976	201	7.3	44147	6	ABK84481	Abk84481 Human cDN	1049	200.4	7.3	2566	5	ABA19833	Aba19833 Human ner
c 977	201	7.3	44147	9	ADD14691	Add14691 Human src	c1050	200.4	7.3	5824	7	ABZ67538	Abz67538 Human sec
c 978	201	7.3	50000	9	ADC56843	Adc56843 Human IkB	c1051	200.4	7.3	5824	7	ABZ73954	Abz73954 Secreted
c 979	201	7.3	55235	4	AAK67426	Aak67426 Human imm	c1052	200.4	7.3	5825	7	ABZ67537	Abz67537 Human sec
c 980	201	7.3	81800	6	ABK84756	Abk84756 Human cDN	c1053	200.4	7.3	5825	7	ABZ73953	Abz73953 Secreted
c 981	201	7.3	86574	6	ABK83560	Abk83560 Human cDN	c1054	200.4	7.3	5881	4	AAL07230	Aal07230 Human rep
c 982	201	7.3	91000	8	AAL61326	Aal61326 Human far	c1055	200.4	7.3	5881	4	ABL98778	Abl98778 Human tes
983	201	7.3	148834	6	ABK83570	Abk83570 Human cDN	c1056	200.4	7.3	6269	9	ADC86968	Adc86968 Human GPC
c 984	201	7.3	169739	6	ABQ88186	Abq88186 Human ost	c1057	200.4	7.3	15332	4	AAK78662	Aak78662 Human imm
985	201	7.3	177531	7	ACF62732	Acf62732 Cancer ba	1058	200.4	7.3	23574	5	ABZ72041	Abz72041 Gene 216
986	201	7.3	177531	7	ADB20847	Adb20847 MRP1 base	1059	200.4	7.3	23574	7	ABX74892	Abx74892 Human gen
987	201	7.3	177531	9	ADB87936	Adb87936 Human UGT	c1060	200.4	7.3	23603	4	AAK71829	Aak71829 Human imm
988	201	7.3	177531	9	ADB96919	Adb96919 Human MDR	1061	200.4	7.3	23603	4	AAK73089	Aak73089 Human imm
989	201	7.3	177531	9	ADB92110	Adb92110 Human MDR	1062	200.4	7.3	23603	4	AAK87557	Aak87557 Human imm
c 990	200.8	7.3	584	6	ABL38071	Abl38071 Human col	c1063	200.4	7.3	23603	4	AAI62936	Aai62936 Human gen
991	200.8	7.3	1790	7	AAL51912	Aal51912 Human rec	1064	200.4	7.3	24218	4	AAK87556	Aak87556 Human imm
992	200.8	7.3	4126	4	AAK89461	Aak89461 Human dig	1065	200.4	7.3	24218	4	AAK73088	Aak73088 Human imm
993	200.8	7.3	4126	4	AAK80162	Aak80162 Human imm	c1066	200.4	7.3	24218	4	AAK71828	Aak71828 Human imm
c 994	200.8	7.3	7349	4	AAK64838	Aak64838 Human imm	c1067	200.4	7.3	24218	4	AAI62935	Aai62935 Human gen
995	200.8	7.3	14254	5	ABA17489	Aba17489 Human ner	1068	200.4	7.3	24218	7	ABZ68186	Abz68186 Human sec
c 996	200.8	7.3	16146	4	AAK84529	Aak84529 Human imm	1069	200.4	7.3	24218	7	ABZ74664	Abz74664 Secreted
c 997	200.8	7.3	16146	7	ABT17011	Abt17011 Human sec	1070	200.4	7.3	28066	9	ADC87584	Adc87584 Human GPC
c 998	200.8	7.3	16146	7	ABZ68089	Abz68089 Human sec	c1071	200.4	7.3	30967	2	AAT32454	Aat32454 Calpain 1
c 999	200.8	7.3	16146	7	ADA98945	Ada98945 Human sec	c1072	200.4	7.3	54863	4	AAK86025	Aak86025 Human imm
c1000	200.8	7.3	16146	7	ADA44551	Ada44551 Human sec	c1073	200.4	7.3	54877	4	AAK86026	Aak86026 Human imm
c1001	200.8	7.3	16146	9	ADC20980	Adc20980 Human sec	1074	200.4	7.3	54877	7	ABZ67791	Abz67791 Human sec
1002	200.8	7.3	17185	4	AAK75628	Aak75628 Human imm	1075	200.4	7.3	54877	7	ABZ74225	Abz74225 Secreted
c1003	200.8	7.3	17185	5	ABA16049	Aba16049 Human ner	1076	200.4	7.3	54877	7	ADA98754	Ada98754 Human sec
c1004	200.8	7.3	20445	6	AAS19906	Aas19906 Reference	1077	200.4	7.3	59554	8	ADA02696	Ada02696 Human TK2
c1005	200.8	7.3	25971	4	AAK86336	Aak86336 Human imm	1078	200.4	7.3	59554	9	ADB72434	Adb72434 Human TK2
c1006	200.8	7.3	37449	4	AAK66874	Aak66874 Human imm	c1079	200.4	7.3	63824	9	ADE43743	Ade43743 Polymorph
c1007	200.8	7.3	38764	8	ADA03020	Ada03020 Human RAC	1080	200.4	7.3	69770	9	ADC86870	Adc86870 Human GPC
c1008	200.8	7.3	38764	9	ADB72758	Adb72758 Human RAC	c1081	200.4	7.3	80959	7	AAL51405	Aal51405 Human sec
c1009	200.8	7.3	38764	9	ADC85500	Adc85500 Human Rac	1082	200.4	7.3	98865	6	ABQ78054	Abq78054 Human Ras
c1010	200.8	7.3	46366	4	AAK82098	Aak82098 Human imm	1083	200.4	7.3	118584	9	ADC87623	Adc87623 Human GPC
1011	200.8	7.3	49312	3	AAH51594	Aah51594 Human gen	1084	200.4	7.3	207433	5	ABZ72040	Abz72040 Gene 216
c1012	200.8	7.3	79528	6	AAL50814	Aal50814 Human can	1085	200.4	7.3	207433	7	ABX74891	Abx74891 BAC1098L2
c1013	200.8	7.3	93273	8	AAL57580	Aal57580 Human GTP	c1086	200.4	7.3	249999	7	ABZ80229	Abz80229 Human tra
1014	200.8	7.3	147419	6	ABK83574	Abk83574 Human cDN	c1087	200.2	7.3	1503	4	AAH16959	Aah16959 Human cDN
c1015	200.8	7.3	174566	7	ABQ77400	Abq77400 Human ITG	1088	200.2	7.3	1693	4	AAK78365	Aak78365 Human imm
c1016	200.8	7.3	237961	6	ABQ80552	Abq80552 Human Can	1089	200.2	7.3	1693	4	AAK78362	Aak78362 Human imm
c1017	200.6	7.3	589	4	AAK73475	Aak73475 Human imm	1090	200.2	7.3	3089	3	AAZ64958	Aaz64958 Membrane-
c1018	200.6	7.3	1052	5	AAH94558	Aah94558 Human foe	1091	200.2	7.3	3089	4	AAS45955	Aas45955 Human DNA
c1019	200.6	7.3	3426	4	AAK72154	Aak72154 Human imm	1092	200.2	7.3	3089	5	AAF44104	Aaf44104 Human PRO
1020	200.6	7.3	5838	4	AAL06131	Aal06131 Human rep	1093	200.2	7.3	3089	7	ABX78558	Abx78558 Human PRO
1021	200.6	7.3	5838	4	ABL98696	Abl98696 Human tes	1094	200.2	7.3	3089	7	ACA75530	Aca75530 Novel hum
1022	200.6	7.3	13819	4	AAL36231	Aal36231 Human mus	1095	200.2	7.3	3089	7	ACA71010	Aca71010 Human sec
1023	200.6	7.3	13819	7	ABX59219	Abx59219 cDNA enco	1096	200.2	7.3	3089	7	ACC87538	Acc87538 Human sec
c1024	200.6	7.3	21234	6	AAD32039	Aad32039 Human kin	1097	200.2	7.3	3089	7	ACC86924	Acc86924 Human sec
c1025	200.6	7.3	21906	4	AAK90851	Aak90851 Human dig	1098	200.2	7.3	3089	7	ACD04097	Acd04097 Human sec
1026	200.6	7.3	22026	4	AAK85636	Aak85636 Human imm	1099	200.2	7.3	3089	7	ABX77728	Abx77728 Human PRO
1027	200.6	7.3	22026	5	ABA16085	Aba16085 Human ner	1100	200.2	7.3	3089	7	ABX80140	Abx80140 Human sec
c1028	200.6	7.3	27695	4	AAK77367	Aak77367 Human imm	1101	200.2	7.3	3089	7	ACA69046	Aca69046 Human cDN
c1029	200.6	7.3	29844	6	AAD46552	Aad46552 Human cMO	1102	200.2	7.3	3089	7	ACA69428	Aca69428 cDNA enco
c1030	200.6	7.3	30610	5	ABA15643	Aba15643 Human ner	1103	200.2	7.3	3089	7	ACA90273	Aca90273 Novel hum
1031	200.6	7.3	39119	7	ABZ67621	Abz67621 Human sec	1104	200.2	7.3	3089	7	ACC89380	Acc89380 Human sec
1032	200.6	7.3	39119	7	ABZ74034	Abz74034 Secreted	1105	200.2	7.3	3089	7	ABX90117	Abx90117 Human sec
1033	200.6	7.3	39119	7	ADA98641	Ada98641 Human sec	1106	200.2	7.3	3089	7	ACA98171	Aca98171 Novel hum
1034	200.6	7.3	39119	9	ADC20764	Adc20764 Human sec	1107	200.2	7.3	3089	7	ACA93813	Aca93813 Human sec
1035	200.6	7.3	41159	4	AAK65631	Aak65631 Human imm	1108	200.2	7.3	3089	7	ACD15206	Acd15206 Human sec
1036	200.6	7.3	43950	6	AAD36022	Aad36022 Human kin	1109	200.2	7.3	3089	7	ACD08793	Acd08793 Human sec
1037	200.6	7.3	65464	7	ABX13172	Abx13172 Human gen	1110	200.2	7.3	3089	7	ACC96713	Acc96713 Human sec
c1038	200.6	7.3	142519	7	AAD54634	Aad54634 Human chr	1111	200.2	7.3	3089	7	ACF15434	Acf15434 Human sec
1039	200.6	7.3	175737	6	ABK83571	Abk83571 Human cDN	1112	200.2	7.3	3089	7	ABX63963	Abx63963 cDNA enco
c1040	200.6	7.3	189013	7	ACF62741	Acf62741 Cancer ba	1113	200.2	7.3	3089	7	ACA72801	Aca72801 Human PRO
c1041	200.6	7.3	189013	7	ADB20856	Adb20856 MRP1 base	1114	200.2	7.3	3089	7	ACD02973	Acd02973 Novel hum
c1042	200.6	7.3	189013	9	ADB87945	Adb87945 Human UGT	1115	200.2	7.3	3089	7	ACD01788	Acd01788 Novel hum
c1043	200.6	7.3	189013	9	ADB96928	Adb96928 Human MDR	1116	200.2	7.3	3089	7	ACA91980	Aca91980 Novel hum
c1044	200.6	7.3	189013	9	ADB92119	Adb92119 Human MDR	1117	200.2	7.3	3089	7	ACA89405	Aca89405 cDNA enco
c1045	200.4	7.3	475	5	ABV61178	Abv61178 Human pro	1118	200.2	7.3	3089	7	ACA73415	Aca73415 Human sec

1119	200.2	7.3	3089	7	ACA05730	Aca05730 Human sec
1120	200.2	7.3	3089	7	ACA66564	Aca66564 cDNA enco
1121	200.2	7.3	3089	7	ACA64185	Aca64185 Novel hum
1122	200.2	7.3	3089	7	ACF20139	Acf20139 Human sec
1123	200.2	7.3	3089	7	ACF19525	Acf19525 Human sec
1124	200.2	7.3	3089	7	ACD21813	Acd21813 Human sec
1125	200.2	7.3	3089	7	ACF12978	Acf12978 Human sec
1126	200.2	7.3	3089	7	ACD25081	Acd25081 Human sec
1127	200.2	7.3	3089	7	ACF00130	Acf00130 Human sec
1128	200.2	7.3	3089	7	ACA72187	Aca72187 Novel hum
1129	200.2	7.3	3089	7	ACD04711	Acd04711 Novel hum
1130	200.2	7.3	3089	7	ACD18172	Acd18172 Human sec
1131	200.2	7.3	3089	7	ACD08179	Acd08179 Human sec
1132	200.2	7.3	3089	7	ACA88613	Aca88613 Novel hum
1133	200.2	7.3	3089	7	ACA70055	Aca70055 Human sec
1134	200.2	7.3	3089	7	ACD12277	Acd12277 Novel hum
1135	200.2	7.3	3089	7	ACC74192	Acc74192 Human sec
1136	200.2	7.3	3089	7	ACD15820	Acd15820 Human sec
1137	200.2	7.3	3089	7	ACD25388	Acd25388 Novel hum
1138	200.2	7.3	3089	7	ACD17865	Acd17865 Human sec
1139	200.2	7.3	3089	7	ACC88152	Acc88152 Human sec
1140	200.2	7.3	3089	7	ACD21506	Acd21506 Human sec
1141	200.2	7.3	3089	7	ACD18573	Acd18573 Human sec
1142	200.2	7.3	3089	7	ABX98183	Abx98183 Human cDN
1143	200.2	7.3	3089	7	ACD13934	Acd13934 Human PRO
1144	200.2	7.3	3089	7	ACD09714	Acd09714 Human sec
1145	200.2	7.3	3089	7	ACC88459	Acc88459 Human sec
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1149	200.2	7.3	3089	7	ACA97250	Aca97250 Novel hum
1150	200.2	7.3	3089	7	ACA57713	Aca57713 Human PRO
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1152	200.2	7.3	3089	7	ACC91024	Acc91024 Human sec
1153	200.2	7.3	3089	7	ACC88766	Acc88766 Human sec
1154	200.2	7.3	3089	7	ACD06963	Acd06963 Human PRO
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1157	200.2	7.3	3089	7	ACC89073	Acc89073 Human sec
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1160	200.2	7.3	3089	7	ACC92866	Acc92866 Human sec
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1162	200.2	7.3	3089	7	ACA72494	Aca72494 Human PRO
1163	200.2	7.3	3089	7	ACA89012	Aca89012 Human sec
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1189	200.2	7.3	3089	7	ACA64996	Aca64996 Human PRO
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1191	200.2	7.3	3089	7	ACA74134	Aca74134 Novel hum
1192	200.2	7.3	3089	7	ACA96529	Aca96529 Human PRO
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1194	200.2	7.3	3089	7	ACC91331	Acc91331 Human sec
1195	200.2	7.3	3089	7	ACA93345	Aca93345 Novel hum
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1425	200.2	7.3	3089	8	ACD43290	Acd43290 cDNA enco
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1427	200.2	7.3	3089	8	ADA92608	Ada92608 Human cDN
1428	200.2	7.3	3089	8	ACF01552	Acf01552 Human sec
1429	200.2	7.3	3089	8	ACF31624	Acf31624 Human sec
1430	200.2	7.3	3089	8	ACD67301	Acd67301 cDNA enco
1431	200.2	7.3	3089	8	ACD48491	Acd48491 Human sec
1432	200.2	7.3	3089	8	ACD48798	Acd48798 Human sec
1433	200.2	7.3	3089	8	ACF51236	Acf51236 Human sec
1434	200.2	7.3	3089	8	ACF53999	Acf53999 Human sec
1435	200.2	7.3	3089	8	ACF25723	Acf25723 Human sec
1436	200.2	7.3	3089	8	ACF39036	Acf39036 Human sec
1437	200.2	7.3	3089	8	ACF28793	Acf28793 Human sec
1438	200.2	7.3	3089	8	ACD90710	Acd90710 Human sec
1439	200.2	7.3	3089	8	ACD86413	Acd86413 Human sec
1440	200.2	7.3	3089	8	ACH05275	Ach05275 cDNA enco
1441	200.2	7.3	3089	8	ACF65071	Acf65071 Human sec
1442	200.2	7.3	3089	8	ADB20173	Adb20173 Human sec
1443	200.2	7.3	3089	8	ACF43544	Acf43544 Human sec
1444	200.2	7.3	3089	8	ACH09014	Ach09014 Human sec
1445	200.2	7.3	3089	8	ACH09321	Ach09321 Human sec
1446	200.2	7.3	3089	8	ADA78425	Ada78425 Human sec
1447	200.2	7.3	3089	8	ACF09744	Acf09744 Human sec
1448	200.2	7.3	3089	8	ACF50929	Acf50929 Human sec
1449	200.2	7.3	3089	8	ACF23823	Acf23823 Human sec
1450	200.2	7.3	3089	8	ACD88255	Acd88255 Human sec
1451	200.2	7.3	3089	8	ACH09628	Ach09628 Human sec
1452	200.2	7.3	3089	8	ACH10549	Ach10549 Human sec
1453	200.2	7.3	3089	8	ACD11356	Acd11356 Human sec
1454	200.2	7.3	3089	8	ACC96406	Acc96406 Human sec
1455	200.2	7.3	3089	8	ACC98436	Acc98436 Human sec
1456	200.2	7.3	3089	8	ACF41741	Acf41741 Human sec
1457	200.2	7.3	3089	8	ACF16662	Acf16662 Human sec
1458	200.2	7.3	3089	8	ACD32182	Acd32182 Human sec
1459	200.2	7.3	3089	8	ACD30340	Acd30340 Human sec
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1469	200.2	7.3	3089	8	ACF42930	Acf42930 Human sec
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1471	200.2	7.3	3089	8	ACH05889	Ach05889 cDNA enco
1472	200.2	7.3	3089	8	ACH08707	Ach08707 Human sec
1473	200.2	7.3	3089	8	ACC90301	Acc90301 Human sec
1474	200.2	7.3	3089	8	ACF10665	Acf10665 Human sec
1475	200.2	7.3	3089	8	ACC93480	Acc93480 Human sec
1476	200.2	7.3	3089	8	ACC96099	Acc96099 Human sec
1477	200.2	7.3	3089	8	ACD24774	Acd24774 Human sec
1478	200.2	7.3	3089	8	ACF01859	Acf01859 Human sec
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1485	200.2	7.3	3089	8	ACD47263	Acd47263 Human sec
1486	200.2	7.3	3089	8	ACD49105	Acd49105 Human sec
1487	200.2	7.3	3089	8	ACF37808	Acf37808 Human sec
1488	200.2	7.3	3089	8	ACF30021	Acf30021 Human sec
1489	200.2	7.3	3089	8	ACD87334	Acd87334 Human sec
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1491	200.2	7.3	3089	8	ACH10856	Ach10856 Human sec
1492	200.2	7.3	3089	8	ACD10021	Acd10021 Human sec
1493	200.2	7.3	3089	8	ACD16746	Acd16746 cDNA enco
1494	200.2	7.3	3089	8	ACH65299	Ach65299 Human cDN
1495	200.2	7.3	3089	8	ACC99043	Acc99043 Human sec
1496	200.2	7.3	3089	8	ACF00437	Acf00437 Human sec
1497	200.2	7.3	3089	8	ACD40904	Acd40904 Human sec
1498	200.2	7.3	3089	8	ACF14513	Acf14513 Human sec
1499	200.2	7.3	3089	8	ACF22288	Acf22288 Human sec
1500	200.2	7.3	3089	8	ACF78865	Acf78865 Human sec

ALIGNMENTS

```
RESULT 1
AAA99905
ID   AAA99905 standard; cDNA; 2749 BP.
XX
AC   AAA99905;
XX
DT   26-JAN-2001  (first entry)
XX
DE   cDNA encoding human protein PRO846.
XX
KW   Cardiovascular; endothelial; angiogenic disorder; PRO179; PRO238; PRO364;
KW   PRO844; PRO846; PRO1760; PRO205; PRO321; PRO333; PRO840; PRO877; PRO878;
KW   PRO879; PRO882; PRO885; PRO887; gene therapy; ss.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   CDS             25. .1023
FT                   /*tag=  a
XX
PN   WO200053757-A2.
XX
PD   14-SEP-2000.
XX
PF   24-FEB-2000; 2000WO-US005004.
XX
PR   08-MAR-1999;   99WO-US005028.
PR   12-MAR-1999;   99US-0123957P.
PR   02-JUN-1999;   99WO-US012252.
PR   20-JUL-1999;   99US-0144758P.
PR   26-JUL-1999;   99US-0145698P.
PR   01-SEP-1999;   99WO-US020111.
PR   15-SEP-1999;   99WO-US021090.
PR   30-NOV-1999;   99WO-US028313.
PR   30-NOV-1999;   99WO-US028409.
PR   02-DEC-1999;   99WO-US028565.
PR   05-JAN-2000; 2000WO-US000219.
PR   18-FEB-2000; 2000WO-US004341.
PR   18-FEB-2000; 2000WO-US004342.
PR   22-FEB-2000; 2000WO-US004414.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi AJ,  Baker KP,  Ferrara N,  Gerber H,  Gerritsen ME;
PI   Goddard A,  Gurney AL,  Hillan KJ,  Marsters SA,  Paoni NF,  Pitti RM;
PI   Watanabe CK,  Williams PM,  Wood WI;
XX
DR   WPI; 2000-611444/58.
DR   P-PSDB; AAB27653.
XX
PT   Novel PRO polypeptides and agonists and antagonists of them, used to
```

PT diagnose and treat cardiovascular, endothelial and angiogenic disorders.
XX
PS Claim 60; Fig 9; 181pp; English.
XX
CC The present invention relates to methods for stimulating or inhibiting
CC angiogenesis and cardiovascularization. The methods involve the use of
CC pharmaceutical compositions based on the following proteins, PRO179,
CC PRO238, PRO364, PRO844, PRO846, PRO1760, PRO205, PRO321, PRO333, PRO840,
CC PRO877, PRO878, PRO879, PRO882, PRO885 or PRO887. These proteins were
CC identified by isolating cDNA clones encoding secreted proteins. The
CC proteins of the invention may be used to diagnose and treat
CC cardiovascular, endothelial or angiogenic disorders. The present sequence
CC is a cDNA clone encoding one of the proteins of the invention
XX
SQ Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

Query Match 99.9%; Score 2747; DB 3; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120

Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
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Db        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180

Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
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Db        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240

Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300

Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360

Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
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Db        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420

Qy        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480

Qy        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540

Qy        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600

Qy        601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660
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Db        601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660

Qy        661 AGCTCCCGCCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 AGCTCCCGCCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720

Qy        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780

Qy        781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900
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Db        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900

Qy        901 TCACGCTTGACTGCGGAGGAAAAGGAAGCCCCTTCCCAGGCCCCTGAGGGGGACGTGATC 960
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Db        901 TCACGCTTGACTGCGGAGGAAAAGGAAGCCCCTTCCCAGGCCCCTGAGGGGGACGTGATC 960

Qy        961 TCGATGCCTCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
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Db        961 TCGATGCCTCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020

Qy       1021 TAGGGCAGGAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1021 TAGGGCAGGAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080

Qy       1081 ACCGATTCCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
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Db       1081 ACCGATTCCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140

Qy       1141 CTCCCCACCCTCCCCAGGCTCTCCTCTTGCATGTTCCAGCCTGACCTAGAAGCGTTTGTC 1200
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Qy       1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260

Qy       1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320
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Db       1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320

Qy       1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCTCATGCCCAGTGTCG 1380
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCTCATGCCCAGTGTCG 1380

Qy       1381 GACCCTGCCTTCCTCCCACTCCAGACCCCACCTTGTCTTCCCTCCCTGGCGTCCTCAGAC 1440
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Qy       1621 ATTCTAACAATGCCCAGTGACTGTCGCACTTGAGTTTGAGGGCCAGTGGGCCTGATGAAC 1680
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Qy       1861 TTGCCTTTNCCATTTGCCCTCCCTGGNCCATGCCTTCTTGCCTTTGGAAAAAATGATGAA 1920
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Db       1861 TTGCCTTTNCCATTTGCCCTCCCTGGNCCATGCCTTCTTGCCTTTGGAAAAAATGATGAA 1920

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Db       1921 GAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA 1980

Qy       1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
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Db       1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040

Qy       2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTG 2100
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Qy       2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160
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Db       2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160

Qy       2161 ATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGG 2220
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Qy       2221 GTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACC 2280
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Qy       2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340
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Qy       2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400
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Db       2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400

Qy       2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTTC 2460
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Qy       2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCCA 2520
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Qy       2521 TAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTTC 2580
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Qy       2581 TTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGTA 2640
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Qy       2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700
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Db       2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700

Qy       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
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Db       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749


RESULT 2
AAA88517
ID   AAA88517 standard; cDNA; 2749 BP.
XX
AC   AAA88517;
XX
DT   22-JAN-2001  (first entry)
XX
DE   Human PRO846 cDNA clone DNA44196-1353.
XX
KW   PRO846; human; ocular disease; retinopathy; maculopathy; therapy;
KW   retinitis pigmentosa; macular degeneration; retinal detachment;
KW   retinal tear; macular hole; myopia; traumatic chorioretinopathy;
KW   acute retinal necrosis syndrome; contusion; edema;
KW   retinal vision occlusion; vascular disease; retinal vasculitis;
KW   thrombocytopenic purpura; uveitis; retinal occlusion; ss.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
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FT   sig_peptide     25. .75
FT                   /*tag=  b
FT   mat_peptide     76. .1020
FT                   /*tag=  c
XX
PN   WO200053760-A2.
XX
PD   14-SEP-2000.
XX
PF   10-MAR-2000; 2000WO-US006319.
XX
PR   12-MAR-1999;   99US-0123957P.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ferrara N,  Goddard A,  Gurney AL,  Hebert C,  Henzel WJ;
PI   Kabakoff RC,  Klein RD,  Kljavin IJ,  Kuo SS,  La Fleur M,  Wood WI;
XX
DR   WPI; 2000-587437/55.
DR   P-PSDB; AAB19580.
XX
PT   Novel PRO polypeptides useful for preventing or rescuing retinal cells
PT   from injury caused by ocular diseases such as retinitis pigmentosa,
PT   retinopathy, retinal degenerative diseases, degenerative myopia, uveitis.
XX
PS   Example 11; Fig 6; 140pp; English.
XX
CC   The present sequence is that of cDNA clone DNA44196-1353 or UNQ422 (ATCC
CC   209847) isolated from a human foetal tissue cDNA library using primers
CC   and probes (see AAA88531-33) based on clone DNA39949 (see AAA88530),
CC   obtained from an expressed sequence tag database using secreted protein
CC   extracellular domains. The clone contains a single open reading frame
CC   encoding a 332-amino acid protein (see AAB19580) designated PRO846. The
CC   isolated cDNA can be used in the recombinant production of PRO846. The
CC   invention relates to the use of PRO polypeptides, including PRO846, to
CC   delay, prevent or rescue retinal cells such as retinal neurons selected
CC   from photoreceptors, retinal ganglion cells, displaced retinal ganglion
CC   cells, amacrine cells, displaced amacrine cells, horizontal and bipolar
CC   neurons, and supportive cells (including Mueller cells and pigment
CC   epithelial cells) from injury and degradation. The retinal cells are
CC   preferably photoreceptors and photoreceptor cell injury or death is
CC   caused by retinal injury, light or environmental trauma or by an ocular
CC   disease selected from retinitis pigmentosa, macular degeneration,
CC   including age-related, retinal detachment, retinal tears, retinopathy,
CC   retinal degenerative diseases, macular holes, degenerative myopia, acute
CC   retinal necrosis syndrome, traumatic chorioretinopathies or contusion
CC   such as Purtscher's retinopathy, edema, ischemic conditions such as
CC   central or branch retinal vision occlusion, collagen vascular diseases,
CC   thrombocytopenic purpura, uveitis, retinal vasculitis and occlusion
CC   associated with Eales disease and systemic lupus erythematosus (claimed)
XX
SQ   Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

  Query Match             99.9%;  Score 2747;  DB 3;  Length 2749;
  Best Local Similarity   100.0%;  Pred. No. 0;
  Matches 2749;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
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Db          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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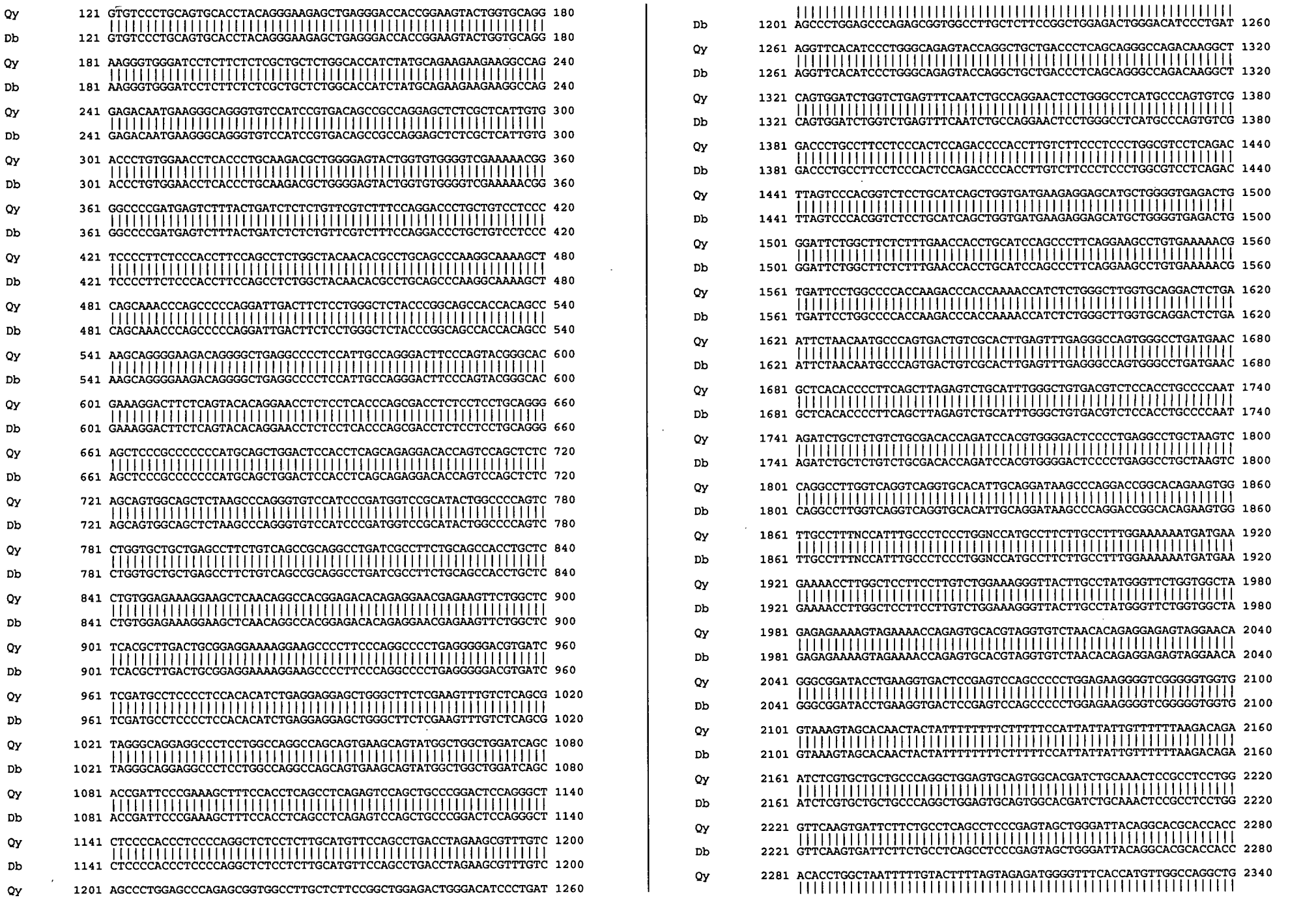
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Db 361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
Qy 421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480
Db 421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480
Qy 481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540
Db 481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540
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Db 541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600
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Db 601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660
Qy 661 AGCTCCCGCCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720
Db 661 AGCTCCCGCCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720
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Db 721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
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Db 1441 TTAGTCCCACGGTCTCCTGCATCAGCTGGTGATGAAGAGGAGCATGCTGGGGTGAGACTG 1500
Qy 1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
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Db 1741 AGATCTGCTCTGTCTGCGACACCAGATCCACGTGGGGACTCCCCTGAGGCCTGCTAAGTC 1800
Qy 1801 CAGGCCTTGGTCAGGTCAGGTGCACATTGCAGGATAAGCCCAGGACCGGCACAGAAGTGG 1860
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RESULT 3
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ID   AAC78503 standard; cDNA; 2749 BP.
XX
AC   AAC78503;
XX
DT   08-FEB-2001  (first entry)
XX
DE   Human PRO846 (UNQ422) nucleotide sequence SEQ ID NO:215.
XX
KW   Human; secreted protein; transmembrane protein; PRO; EST; cytostatic;
KW   expressed sequence tag; detection; cancer; ss.
XX
OS   Homo sapiens.
XX
PN   WO200053756-A2.
XX
PD   14-SEP-2000.
XX
PF   18-FEB-2000; 2000WO-US004341.
XX
PR   08-MAR-1999;   99WO-US005028.
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PR   21-APR-1999;   99US-0130232P.
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PR   14-MAY-1999;   99US-0134287P.
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PR   30-NOV-1999;   99WO-US028313.
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XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi AJ,  Baker KP,  Botstein D,  Desnoyers L,  Eaton DL;
PI   Ferrara N,  Filvaroff E,  Fong S,  Gao W,  Gerber H,  Gerritsen ME;
PI   Goddard A,  Godowski PJ,  Grimaldi CJ,  Gurney AL,  Hillan KJ;
PI   Kljavin IJ,  Kuo SS,  Napier MA,  Pan J,  Paoni NF,  Roy MA,  Shelton DL;
PI   Stewart TA,  Tumas D,  Williams PM,  Wood WI;
XX
DR   WPI; 2000-611443/58.
DR   P-PSDB; AAB44273.
XX
PT   Novel PRO polypeptides and polynucleotides used in detection methods, to
PT   target bioactive molecules to specific cells, and to modulate cellular
PT   activities.
XX
PS   Claim 2; Fig 78; 636pp; English.
XX
CC   AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence
CC   tag) sequences which encode secreted or transmembrane PRO polypeptides.
CC   The PRO polynucleotides and polypeptides have cytostatic activity. The
CC   polynucleotides and polypeptides can be used for detecting the presence
CC   of PRO polypeptides in samples, for linking bioactive molecules to cells
CC   and for modulating biological activities of cells, using the polypeptides
CC   for specific targeting. The polypeptide targeting can be used to kill the
CC   target cells, e.g. for the treatment of cancers. The polypeptide pairs
CC   provide specific targeting of bioactive molecules to cells. AAC78600 to
CC   AAC78987 represent PCR primers and probes used in the isolation of the
CC   PRO polynucleotide sequences
XX
SQ   Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

  Query Match             99.9%;  Score 2747;  DB 3;  Length 2749;
  Best Local Similarity   100.0%;  Pred. No. 0;
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Qy        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600
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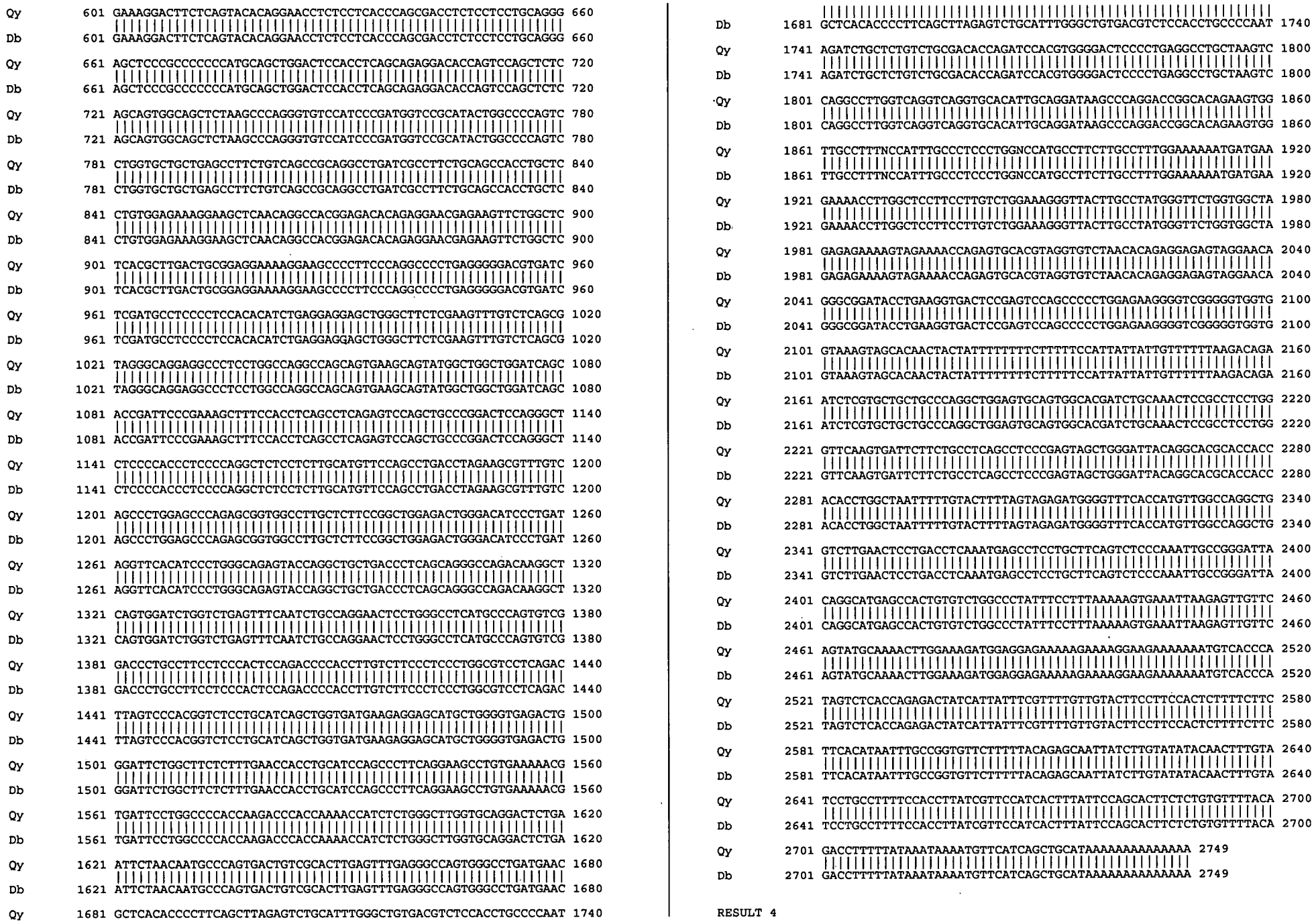
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Qy 721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
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Qy 781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840
Db 781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840
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Db 841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900
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Db 1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
Qy 1561 TGATTCCTGGCCCCACCAAGACCCACCAAAACCATCTCTGGGCTTGGTGCAGGACTCTGA 1620
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Qy 1681 GCTCACACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACCTGCCCCAAT 1740
Db 1681 GCTCACACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACCTGCCCCAAT 1740
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Db 1741 AGATCTGCTCTGTCTGCGACACCAGATCCACGTGGGGACTCCCCTGAGGCCTGCTAAGTC 1800
Qy 1801 CAGGCCTTGGTCAGGTCAGGTGCACATTGCAGGATAAGCCCAGGACCGGCACAGAAGTGG 1860
Db 1801 CAGGCCTTGGTCAGGTCAGGTGCACATTGCAGGATAAGCCCAGGACCGGCACAGAAGTGG 1860
Qy 1861 TTGCCTTTNCCATTTGCCCTCCCTGGNCCATGCCTTCTTGCCTTTGGAAAAAATGATGAA 1920
Db 1861 TTGCCTTTNCCATTTGCCCTCCCTGGNCCATGCCTTCTTGCCTTTGGAAAAAATGATGAA 1920
Qy 1921 GAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA 1980
Db 1921 GAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA 1980
Qy 1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
Db 1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
Qy 2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTG 2100
Db 2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTG 2100
Qy 2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160
Db 2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160
Qy 2161 ATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGG 2220
Db 2161 ATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGG 2220
Qy 2221 GTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACC 2280
Db 2221 GTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACC 2280
Qy 2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340
Db 2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340
Qy 2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400
Db 2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400
Qy 2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTTC 2460
Db 2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTTC 2460
Qy 2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAAGGAAGAAAAAAAATGTCACCCA 2520
Db 2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAAGGAAGAAAAAAAATGTCACCCA 2520
Qy 2521 TAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTTC 2580
Db 2521 TAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTTC 2580
Qy 2581 TTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGTA 2640
Db 2581 TTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGTA 2640
Qy 2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700
Db 2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700
Qy 2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
Db 2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749

RESULT 4

AAS21436
ID AAS21436 standard; cDNA; 2749 BP.
XX
AC AAS21436;
XX
DT 24-OCT-2001 (first entry)
XX
DE Human cDNA sequence encoding for PRO846 polypeptide.
XX
KW Human secretory and transmembrane; PRO; mammalian; cancer; lung; breast;
KW prostate; cervical; tumour necrosis factor-alpha; TNF-alpha; cartilage;
KW ear; proliferation; glucose; free fatty acid; skeletal muscle; adipocyte;
KW A-peptide; factor VIIA; gene therapy; ss.
XX
OS Homo sapiens.
XX
PN WO200140466-A2.
XX
PD 07-JUN-2001.
XX
PF 01-DEC-2000; 2000WO-US032678.
XX
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 09-DEC-1999; 99US-0170262P.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 03-MAR-2000; 2000US-0187202P.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 05-JUN-2000; 2000US-0209832P.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2001-408281/43.
DR P-PSDB; AAU12364.
XX
PT Isolated , secretory and transmembrane PRO polypeptide used to detect
PT other PRO polypeptides, link bioactive molecules to cells expressing PRO
PT polypeptides, and detect the presence of mammalian tumors e.g. lung,
PT breast, prostate, cervical.
XX
PS Claim 3; Fig 385; 813pp; English.
XX
CC AAS21244-AAS21518 encode for novel human secretory and transmembrane PRO
CC polypeptides. The PRO polypeptides are useful to detect other PRO
CC polypeptides, to link bioactive molecules to cells expressing PRO
CC polypeptides, to modulate biological activities of cells expressing PRO
CC polypeptides, and to detect the presence of mammalian lung, colon,
CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
CC polypeptide expression in a cell sample to that in a control sample. Some
CC of the 275 sequences are also useful to stimulate the release of tumour
CC necrosis factor-alpha (TNF-alpha) from human blood, the proliferation or
CC differentiation of chondrocytes, the proliferation or gene expression in
CC pericyte cells, the release of proteoglycans from cartilage, the
CC proliferation of inner ear utricular supporting cells or of T-
CC lymphocytes, the release of a cytokine from peripheral blood monocytes
CC (PBMCs), or the proliferation of endothelial cells. Some of the PRO
CC polypeptides may modulate glucose or free fatty acid uptake by skeletal
CC muscle cells or by adipocytes; or inhibit binding of A-peptide to factor
CC VIIA. The PRO polypeptides can be used in assays to identify molecules
CC involved in binding interactions. The polynucleotides encoding PRO
CC polypeptides can be used to generate probes, antisense RNA/DNA,
CC transgenic or knock out animals and can be used in gene therapy
XX
SQ Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

Query Match 99.9%; Score 2747; DB 4; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120

Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180

Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240

Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300

Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360

Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420

Qy        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480

Qy        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540

Qy        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600

Qy        601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660
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Db        601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660
Qy        661 AGCTCCCGCCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720
Db        661 AGCTCCCGCCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720
Qy        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
Db        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
Qy        781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840
Db        781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840
Qy        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900
Db        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900
Qy        901 TCACGCTTGACTGCGGAGGAAAAGGAAGCCCCTTCCCAGGCCCCTGAGGGGGACGTGATC 960
Db        901 TCACGCTTGACTGCGGAGGAAAAGGAAGCCCCTTCCCAGGCCCCTGAGGGGGACGTGATC 960
Qy        961 TCGATGCCTCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
Db        961 TCGATGCCTCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
Qy       1021 TAGGGCAGGAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
Db       1021 TAGGGCAGGAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
Qy       1081 ACCGATTCCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
Db       1081 ACCGATTCCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
Qy       1141 CTCCCCACCCTCCCCAGGCTCTCCTCTTGCATGTTCCAGCCTGACCTAGAAGCGTTTGTC 1200
Db       1141 CTCCCCACCCTCCCCAGGCTCTCCTCTTGCATGTTCCAGCCTGACCTAGAAGCGTTTGTC 1200
Qy       1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
Db       1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
Qy       1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320
Db       1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320
Qy       1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCTCATGCCCAGTGTCG 1380
Db       1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCTCATGCCCAGTGTCG 1380
Qy       1381 GACCCTGCCTTCCTCCCACTCCAGACCCCACCTTGTCTTCCCTCCCTGGCGTCCTCAGAC 1440
Db       1381 GACCCTGCCTTCCTCCCACTCCAGACCCCACCTTGTCTTCCCTCCCTGGCGTCCTCAGAC 1440
Qy       1441 TTAGTCCCACGGTCTCCTGCATCAGCTGGTGATGAAGAGGAGCATGCTGGGGTGAGACTG 1500
Db       1441 TTAGTCCCACGGTCTCCTGCATCAGCTGGTGATGAAGAGGAGCATGCTGGGGTGAGACTG 1500
Qy       1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
Db       1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
Qy       1561 TGATTCCTGGCCCCACCAAGACCCACCAAAACCATCTCTGGGCTTGGTGCAGGACTCTGA 1620
Db       1561 TGATTCCTGGCCCCACCAAGACCCACCAAAACCATCTCTGGGCTTGGTGCAGGACTCTGA 1620
Qy       1621 ATTCTAACAATGCCCAGTGACTGTCGCACTTGAGTTTGAGGGCCAGTGGGCCTGATGAAC 1680
Db       1621 ATTCTAACAATGCCCAGTGACTGTCGCACTTGAGTTTGAGGGCCAGTGGGCCTGATGAAC 1680
Qy       1681 GCTCACACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACCTGCCCCAAT 1740
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Db       1681 GCTCACACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACCTGCCCCAAT 1740
Qy       1741 AGATCTGCTCTGTCTGCGACACCAGATCCACGTGGGGACTCCCCTGAGGCCTGCTAAGTC 1800
Db       1741 AGATCTGCTCTGTCTGCGACACCAGATCCACGTGGGGACTCCCCTGAGGCCTGCTAAGTC 1800
Qy       1801 CAGGCCTTGGTCAGGTCAGGTGCACATTGCAGGATAAGCCCAGGACCGGCACAGAAGTGG 1860
Db       1801 CAGGCCTTGGTCAGGTCAGGTGCACATTGCAGGATAAGCCCAGGACCGGCACAGAAGTGG 1860
Qy       1861 TTGCCTTTNCCATTTGCCCTCCCTGGNCCATGCCTTCTTGCCTTTGGAAAAAATGATGAA 1920
Db       1861 TTGCCTTTNCCATTTGCCCTCCCTGGNCCATGCCTTCTTGCCTTTGGAAAAAATGATGAA 1920
Qy       1921 GAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA 1980
Db       1921 GAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA 1980
Qy       1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
Db       1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
Qy       2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTG 2100
Db       2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTG 2100
Qy       2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160
Db       2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160
Qy       2161 ATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGG 2220
Db       2161 ATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGG 2220
Qy       2221 GTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACC 2280
Db       2221 GTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACC 2280
Qy       2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340
Db       2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340
Qy       2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400
Db       2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400
Qy       2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTTC 2460
Db       2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTTC 2460
Qy       2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCCA 2520
Db       2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCCA 2520
Qy       2521 TAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTTC 2580
Db       2521 TAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTTC 2580
Qy       2581 TTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGTA 2640
Db       2581 TTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGTA 2640
Qy       2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700
Db       2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700
Qy       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
Db       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749

RESULT 5
AAF44269
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ID AAF44269 standard; cDNA; 2749 BP.
XX
AC AAF44269;
XX
DT 02-APR-2001 (first entry)
XX
DE Human PRO846 nucleotide sequence SEQ ID NO:516.
XX
KW Human; secreted and transmembrane protein; PRO; cytostatic; cell death;
KW cancer; chromosomal mapping; gene mapping; tissue typing;
KW diagnostic assay; ss.
XX
OS Homo sapiens.
XX
PN WO200073454-A1.
XX
PD 07-DEC-2000.
XX
PF 30-MAR-2000; 2000WO-US008439.
XX
PR 02-JUN-1999; 99WO-US012252.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0143048P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 17-AUG-1999; 99US-0149396P.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 08-OCT-1999; 99US-0158663P.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi CJ, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX
DR WPI; 2001-032160/04.
DR P-PSDB; AAB65300.
XX
PT PRO polynucleotides used to produce polypeptides used to target bioactive
PT molecules such as toxins, radiolabels or antibodies, to specific cells,
PT to cause targeted cell death.
XX
PS Claim 2; Fig 329; 935pp; English.
XX
CC The present invention describes human secreted and transmembrane PRO
CC proteins. The PRO proteins have cytostatic activity. The PRO proteins can
CC be used for targeted delivery of bioactive molecules, such as toxins,
CC radiolabels or antibodies, that cause cell death. PRO nucleotide
CC sequences, and their fragments, can be used as hybridisation probes, in
CC chromosomal and gene mapping, and in the generation of anti-sense RNA and
CC DNA. They may also be used to produce transgenic animals which are used
CC to develop and screen therapeutically useful reagents. The PRO nucleotide
CC and protein sequence can be used for tissue typing and in treating
CC cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to
CC AAF44470 represent PCR primers and hybridisation probes used in the
CC isolation of human PRO sequences. AAF44087 to AAF44269 and AAB65154 to
CC AAB65300 represent human PRO polynucleotide and protein sequences given
CC in the exemplification of the present invention
XX
SQ Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

Query Match 99.9%; Score 2747; DB 5; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120

Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180

Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240

Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300

Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360

Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420

Qy        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480

Qy        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540

Qy        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600

Qy        601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660

Qy        661 AGCTCCCGCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 AGCTCCCGCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720

Qy        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780

Qy        781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840

Qy        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900

Qy        901 TCACGCTTGACTGCGGAGGAAAAGGAAGCCCCTTCCCAGGCCCCTGAGGGGGACGTGATC 960
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        901 TCACGCTTGACTGCGGAGGAAAAGGAAGCCCCTTCCCAGGCCCCTGAGGGGGACGTGATC 960
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Qy       961 TCGATGCCTCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
Db       961 TCGATGCCTCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020

Qy      1021 TAGGGCAGGAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
Db      1021 TAGGGCAGGAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080

Qy      1081 ACCGATTCCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
Db      1081 ACCGATTCCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140

Qy      1141 CTCCCCACCCTCCCCAGGCTCTCCTCTTGCATGTTCCAGCCTGACCTAGAAGCGTTTGTC 1200
Db      1141 CTCCCCACCCTCCCCAGGCTCTCCTCTTGCATGTTCCAGCCTGACCTAGAAGCGTTTGTC 1200

Qy      1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
Db      1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260

Qy      1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320
Db      1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320

Qy      1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCTCATGCCCAGTGTCG 1380
Db      1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCTCATGCCCAGTGTCG 1380

Qy      1381 GACCCTGCCTTCCTCCCACTCCAGACCCCACCTTGTCTTCCCTCCCTGGCGTCCTCAGAC 1440
Db      1381 GACCCTGCCTTCCTCCCACTCCAGACCCCACCTTGTCTTCCCTCCCTGGCGTCCTCAGAC 1440

Qy      1441 TTAGTCCCACGGTCTCCTGCATCAGCTGGTGATGAAGAGGAGCATGCTGGGGTGAGACTG 1500
Db      1441 TTAGTCCCACGGTCTCCTGCATCAGCTGGTGATGAAGAGGAGCATGCTGGGGTGAGACTG 1500

Qy      1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
Db      1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560

Qy      1561 TGATTCCTGGCCCCACCAAGACCCACCAAAACCATCTCTGGGCTTGGTGCAGGACTCTGA 1620
Db      1561 TGATTCCTGGCCCCACCAAGACCCACCAAAACCATCTCTGGGCTTGGTGCAGGACTCTGA 1620

Qy      1621 ATTCTAACAATGCCCAGTGACTGTCGCACTTGAGTTTGAGGGCCAGTGGGCCTGATGAAC 1680
Db      1621 ATTCTAACAATGCCCAGTGACTGTCGCACTTGAGTTTGAGGGCCAGTGGGCCTGATGAAC 1680

Qy      1681 GCTCACACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACCTGCCCCAAT 1740
Db      1681 GCTCACACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACCTGCCCCAAT 1740

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Db      1741 AGATCTGCTCTGTCTGCGACACCAGATCCACGTGGGGACTCCCCTGAGGCCTGCTAAGTC 1800

Qy      1801 CAGGCCTTGGTCAGGTCAGGTGCACATTGCAGGATAAGCCCAGGACCGGCACAGAAGTGG 1860
Db      1801 CAGGCCTTGGTCAGGTCAGGTGCACATTGCAGGATAAGCCCAGGACCGGCACAGAAGTGG 1860

Qy      1861 TTGCCTTTNCCATTTGCCCTCCCTGGNCCATGCCTTCTTGCCTTTGGAAAAAATGATGAA 1920
Db      1861 TTGCCTTTNCCATTTGCCCTCCCTGGNCCATGCCTTCTTGCCTTTGGAAAAAATGATGAA 1920

Qy      1921 GAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA 1980
Db      1921 GAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA 1980

Qy      1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
Db      1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040

Qy      2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTG 2100
Db      2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTG 2100

Qy      2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160
Db      2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160

Qy      2161 ATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGG 2220
Db      2161 ATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGG 2220

Qy      2221 GTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACC 2280
Db      2221 GTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACC 2280

Qy      2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340
Db      2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340

Qy      2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400
Db      2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400

Qy      2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTTC 2460
Db      2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTTC 2460

Qy      2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCCA 2520
Db      2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCCA 2520

Qy      2521 TAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTTC 2580
Db      2521 TAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTTC 2580

Qy      2581 TTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGTA 2640
Db      2581 TTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGTA 2640

Qy      2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700
Db      2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700

Qy      2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAAA 2749
Db      2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAAA 2749
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RESULT 6
ABL88101
ID ABL88101 standard; cDNA; 2749 BP.
XX
AC ABL88101;
XX
DT 16-MAY-2002 (first entry)
XX
DE Human PRO846 cDNA sequence SEQ ID NO:59.
XX
KW Human; angiogenesis; cardiant; cytostatic; antiangiogenic; hypotensive;
KW vulnerary; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;
KW gene therapy; cardiovascular disorder; endothelial disorder; cancer;
KW angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;
KW age-related macular degeneration; arterial restenosis; angina;
KW rheumatoid arthritis; myocardial infarction; thrombophlebitis;
KW lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;
KW wound healing; chromosome mapping; gene mapping; gene; ss.
XX
OS Homo sapiens.
XX
PN WO200200690-A2.
XX
PD 03-JAN-2002.

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XX
PF   20-JUN-2001; 2001WO-US019692.
XX
PR   23-JUN-2000; 2000US-0213637P.
PR   20-JUL-2000; 2000US-0219556P.
PR   25-JUL-2000; 2000US-0220624P.
PR   25-JUL-2000; 2000US-0220664P.
PR   28-JUL-2000; 2000WO-US020710.
PR   02-AUG-2000; 2000US-0222695P.
PR   17-AUG-2000; 2000US-00643657.
PR   23-AUG-2000; 2000WO-US023522.
PR   24-AUG-2000; 2000WO-US023328.
PR   07-SEP-2000; 2000US-0230978P.
PR   18-SEP-2000; 2000US-00664610.
PR   18-SEP-2000; 2000US-00665350.
PR   24-OCT-2000; 2000US-0242922P.
PR   08-NOV-2000; 2000US-00709238.
PR   08-NOV-2000; 2000WO-US030952.
PR   10-NOV-2000; 2000WO-US030873.
PR   01-DEC-2000; 2000WO-US032678.
PR   20-DEC-2000; 2000US-00747259.
PR   20-DEC-2000; 2000WO-US034956.
PR   22-JAN-2001; 2001US-00767609.
PR   28-FEB-2001; 2001US-00796498.
PR   28-FEB-2001; 2001WO-US006520.
PR   01-MAR-2001; 2001WO-US006666.
PR   09-MAR-2001; 2001US-00802706.
PR   14-MAR-2001; 2001US-00808689.
PR   22-MAR-2001; 2001US-00816744.
PR   05-APR-2001; 2001US-00828366.
PR   10-MAY-2001; 2001US-00854208.
PR   10-MAY-2001; 2001US-00854280.
PR   25-MAY-2001; 2001US-00866028.
PR   25-MAY-2001; 2001US-00866034.
PR   25-MAY-2001; 2001WO-US017092.
PR   30-MAY-2001; 2001US-00870574.
PR   30-MAY-2001; 2001WO-US017443.
PR   01-JUN-2001; 2001WO-US017800.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Baker KP,  Ferrara N,  Gerber H,  Gerritsen ME,  Goddard A;
PI   Godowski PJ,  Gurney AL,  Hillan KJ,  Marsters SA,  Pan J,  Paoni NF;
PI   Stephan JF,  Watanabe CK,  Williams PM,  Wood WI,  Ye W;
XX
DR   WPI; 2002-090516/12.
DR   P-PSDB; ABB84846.
XX
PT   One hundred and eighty seven nucleic acids encoding PRO polypeptides,
PT   useful in diagnosis and treatment of cardiovascular (e.g. myocardial
PT   infarction), endothelial or angiogenic disorders in a mammal.
XX
PS   Claim 2; Fig 59; 565pp; English.
XX
CC   ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to
CC   ABB85003. The PRO proteins and polynucleotides have cardiant, cytostatic,
CC   antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic
CC   activities, and can be used in gene therapy. The PRO polynucleotides,
CC   proteins, agonists and antagonists are useful for treating or diagnosing
CC   a cardiovascular, endothelial or angiogenic disorder in a mammal, e.g.
CC   cardiac hypertrophy, trauma, cancer, age-related macular degeneration,
CC   atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,
CC   angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour
CC   angiogenesis (such as breast carcinoma and liver carcinoma) and wound
CC   healing. The PRO polynucleotides have applications in molecular biology,
CC   including use as hybridisation probes, and in chromosome and gene
CC   mapping. ABL88259 to ABL88267 represent primers and probes used in the
CC   exemplification of the present invention
XX
SQ   Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

  Query Match             99.9%;  Score 2747;  DB 6;  Length 2749;
  Best Local Similarity   100.0%;  Pred. No. 0;

  Matches 2749;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
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Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
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Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
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Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
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Db        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360

Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420

Qy        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480

Qy        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540

Qy        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600

Qy        601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660

Qy        661 AGCTCCCGCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 AGCTCCCGCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720

Qy        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
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Db        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780

Qy        781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840
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Qy        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900
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Qy        961 TCGATGCCTCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
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Qy       1021 TAGGGCAGGAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1021 TAGGGCAGGAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
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Qy       1081 ACCGATTCCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
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Db       1081 ACCGATTCCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140

Qy       1141 CTCCCCACCCTCCCCAGGCTCTCCTCTTGCATGTTCCAGCCTGACCTAGAAGCGTTTGTC 1200
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Db       1141 CTCCCCACCCTCCCCAGGCTCTCCTCTTGCATGTTCCAGCCTGACCTAGAAGCGTTTGTC 1200

Qy       1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
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Db       1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260

Qy       1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320
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Db       1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320

Qy       1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCTCATGCCCAGTGTCG 1380
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Qy       1381 GACCCTGCCTTCCTCCCACTCCAGACCCCACCTTGTCTTCCCTCCCTGGCGTCCTCAGAC 1440
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Qy       1441 TTAGTCCCACGGTCTCCTGCATCAGCTGGTGATGAAGAGGAGCATGCTGGGGTGAGACTG 1500
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Qy       1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
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Db       1561 TGATTCCTGGCCCCACCAAGACCCACCAAAACCATCTCTGGGCTTGGTGCAGGACTCTGA 1620

Qy       1621 ATTCTAACAATGCCCAGTGACTGTCGCACTTGAGTTTGAGGGCCAGTGGGCCTGATGAAC 1680
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Qy       1681 GCTCACACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACCTGCCCCAAT 1740
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Qy       1741 AGATCTGCTCTGTCTGCGACACCAGATCCACGTGGGGACTCCCCTGAGGCCTGCTAAGTC 1800
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Qy       1861 TTGCCTTTNCCATTTGCCCTCCCTGGNCCATGCCTTCTTGCCTTTGGAAAAAATGATGAA 1920
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Qy       1921 GAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA 1980
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Qy       1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
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Qy       2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTG 2100
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Db       2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTG 2100

Qy       2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160
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Db       2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160

Qy       2161 ATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGG 2220
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Db       2161 ATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGG 2220

Qy       2221 GTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACC 2280
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Qy       2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340

Qy       2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400

Qy       2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTTC 2460
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTTC 2460

Qy       2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCCA 2520
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCCA 2520

Qy       2521 TAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTTC 2580
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Db       2521 TAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTTC 2580

Qy       2581 TTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGTA 2640
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Qy       2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700
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Qy       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
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RESULT 7
ABL95590
ID ABL95590 standard; cDNA; 2749 BP.
XX
AC ABL95590;
XX
DT 19-JUL-2002 (first entry)
XX
DE Human angiogenesis related cDNA PRO846 SEQ ID NO: 59.
XX
KW Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer;
KW atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;
KW cardiant; cytostatic; antiangiogenic; hypotensive; vulnerary;
KW antiarteriosclerotic; gene; ss.
XX
OS Homo sapiens.
XX
PN WO200208284-A2.
XX
PD 31-JAN-2002.
XX
PF 09-JUL-2001; 2001WO-US021735.
XX
PR 20-JUL-2000; 2000US-0219556P.
PR 25-JUL-2000; 2000US-0220624P.
PR 25-JUL-2000; 2000US-0220664P.
PR 28-JUL-2000; 2000WO-US020710.
PR 02-AUG-2000; 2000US-0222695P.
PR 17-AUG-2000; 2000US-00643657.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 07-SEP-2000; 2000US-0230978P.

PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 24-OCT-2000; 2000US-0242922P.
PR 08-NOV-2000; 2000US-00709238.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 22-JAN-2001; 2001US-00767609.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
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PR 30-MAY-2001; 2001US-00870574.
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PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
XX
PA (GETH) GENENTECH INC.
PA (BAKE/) BAKER K P.
PA (FERR/) FERRARA N.
PA (GERB/) GERBER H.
PA (GERR/) GERRITSEN M E.
PA (GODD/) GODDARD A.
PA (GODO/) GODOWSKI P J.
PA (GURN/) GURNEY A L.
PA (HILL/) HILLAN K J.
PA (MARS/) MARSTERS S A.
PA (PANJ/) PAN J.
PA (PAON/) PAONI N F.
PA (STEP/) STEPHAN J F.
PA (WATA/) WATANABE C K.
PA (WILL/) WILLIAMS P M.
PA (WOOD/) WOOD W I.
XX
PI Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;
PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;
XX
DR WPI; 2002-171999/22.
DR P-PSDB; ABB95452.
XX
PT One hundred and eighty seven nucleic acids encoding PRO polypeptides,
PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
PT infarction), endothelial or angiogenic disorders in a mammal.
XX
PS Claim 1; Fig 59; 567pp; English.
XX
CC The present invention provides the protein and coding sequences of human
CC PRO proteins. These are useful for treating or diagnosing a
CC cardiovascular, endothelial or angiogenic disorder, including cardiac
CC hypertrophy, trauma, cancer, age-related macular degeneration,
CC atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,
CC angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour
CC angiogenesis (such as breast carcinoma and liver carcinoma) and wound
CC healing. The present sequence is a coding sequence of the invention
XX
SQ Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

Query Match 99.9%; Score 2747; DB 6; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
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Db          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
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Db        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180

Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
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Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300

Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360

Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420

Qy        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480
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Db        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480

Qy        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540
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Qy        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600
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Db        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600

Qy        601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660
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Db        601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660

Qy        661 AGCTCCCGCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720
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Db        661 AGCTCCCGCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720

Qy        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780

Qy        781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840
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Qy        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900
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Qy        901 TCACGCTTGACTGCGGAGGAAAAGGAAGCCCCTTCCCAGGCCCCTGAGGGGGACGTGATC 960
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Qy        961 TCGATGCCTCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
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Qy       1021 TAGGGCAGGAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1021 TAGGGCAGGAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080

Qy       1081 ACCGATTCCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
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Db       1081 ACCGATTCCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
Qy       1141 CTCCCCACCCTCCCCAGGCTCTCCTCTTGCATGTTCCAGCCTGACCTAGAAGCGTTTGTC 1200
Db       1141 CTCCCCACCCTCCCCAGGCTCTCCTCTTGCATGTTCCAGCCTGACCTAGAAGCGTTTGTC 1200
Qy       1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
Db       1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
Qy       1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320
Db       1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320
Qy       1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCTCATGCCCAGTGTCG 1380
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Db       1381 GACCCTGCCTTCCTCCCACTCCAGACCCCACCTTGTCTTCCCTCCCTGGCGTCCTCAGAC 1440
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Qy       1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
Db       1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
Qy       1561 TGATTCCTGGCCCCACCAAGACCCACCAAAACCATCTCTGGGCTTGGTGCAGGACTCTGA 1620
Db       1561 TGATTCCTGGCCCCACCAAGACCCACCAAAACCATCTCTGGGCTTGGTGCAGGACTCTGA 1620
Qy       1621 ATTCTAACAATGCCCAGTGACTGTCGCACTTGAGTTTGAGGGCCAGTGGGCCTGATGAAC 1680
Db       1621 ATTCTAACAATGCCCAGTGACTGTCGCACTTGAGTTTGAGGGCCAGTGGGCCTGATGAAC 1680
Qy       1681 GCTCACACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACCTGCCCCAAT 1740
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Qy       1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
Db       1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
Qy       2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTG 2100
Db       2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTG 2100
Qy       2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160
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Qy       2161 ATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGG 2220
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Qy       2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340
Db       2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340
Qy       2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400
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Qy       2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTTC 2460
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Qy       2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCCA 2520
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Qy       2581 TTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGTA 2640
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Qy       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
Db       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
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RESULT 8
ABX78063
ID ABX78063 standard; cDNA; 2749 BP.
XX
AC ABX78063;
XX
DT 14-APR-2003 (first entry)
XX
DE Human PRO polynucleotide #147.
XX
KW Human; PRO; gene; ss; cytostatic; tumour; cancer; breast; lung; stomach;
KW liver; horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT;
KW antibody-dependent enzyme mediated prodrug therapy.
XX
OS Homo sapiens.
XX
PN US2003027163-A1.
XX
PD 06-FEB-2003.
XX
PF 15-NOV-2001; 2001US-00997666.
XX
PR 16-JUN-1997; 97US-0049787P.
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PR 08-OCT-1999; 99US-0158663P.
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PR 20-DEC-1999; 99WO-US030911.
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PR 06-JAN-2000; 2000WO-US000376.

PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
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PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
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PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
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PR 23-JUN-2000; 2000US-0213637P.
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PR 11-AUG-2000; 2000WO-US022031.
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Query Match 99.9%; Score 2747; DB 7; Length 2749;
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RESULT 9
ABX80475
ID   ABX80475 standard; DNA; 2749 BP.
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AC   ABX80475;
XX
DT   28-APR-2003  (first entry)
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DE   Human secreted or transmembrane protein related PCR primer #149.
XX
KW   Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
KW   cardiac insufficiency disorder; cancer; tumour; immune response;
KW   adrenal cortical capillary endothelial growth; c-fos induction;
KW   vascular endothelial growth factor inhibition; VEGF inhibition;
KW   endothelial cell growth inhibitor; T-lymphocytes stimulation;
KW   retinal neurons cell survival; rod photoreceptor cell survival;
KW   retinal disorder; retinitis pigmentosum; kidney disorder;
KW   mammalian kidney mesangial cell proliferation; Berger disease;
KW   dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation;
KW   chondrocyte redifferentiation; sports injury; arthritis; PCR; primer; ss.
XX
OS   Homo sapiens.
XX
PN   US2002132252-A1.
XX
PD   19-SEP-2002.
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PF   14-NOV-2001; 2001US-00990442.
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PR   16-JUN-1997;   97US-0049787P.
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PR   17-SEP-1998;   98WO-US019437.
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PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
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PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
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PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX
DR WPI; 2003-247083/24.
XX
PT Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
PT are therapeutically useful for enhancing immune response and in cancer
PT treatments.
XX
PS Example 173; Page 301; 648pp; English.
XX
CC The invention describes an isolated human PRO polypeptide. The PRO
CC polypeptides are useful in detecting PRO polypeptides in a sample, in
CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
CC in modulating at least one biological activity of a cell expressing a PRO
CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
CC stimulate adrenal cortical capillary endothelial growth, and PRO536,
CC PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
CC useful for treating conditions or disorders where angiogenesis would be
CC beneficial, e.g. wound healing and antagonist of this polypeptide are
CC useful for treating cancerous tumours. PRO812 inhibits vascular
CC endothelial growth factor (VEGF) stimulated proliferation of endothelial
CC cells and is thus useful for inhibiting endothelial cell growth in
CC mammals which would be beneficial in inhibiting tumour growth. PRO826,
CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
CC stimulated T-lymphocytes and are therapeutically useful for enhancing
CC immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of
CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
CC rod photoreceptor cells) and therefore are useful for treating retinal
CC disorders of injuries, e.g. retinitis pigmentosum, AMD. PRO819, PRO813
CC and PRO11066 induce proliferation of mammalian kidney mesangial cells,
CC and therefore are useful for treating kidney disorders associated with
CC decreased mesangial cell function such as Berger disease or other
CC nephropathies associated with dermatitis, herpetiformis or Crohn's
CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
CC proliferation and/or redifferentiation of chondrocytes in culture and are
CC thus useful for treating sports injuries, and arthritis. This sequence
CC represents a primer used in the isolation of DNA encoding novel human PRO
CC polypeptides
XX
SQ Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

Query Match 99.9%; Score 2747; DB 7; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 10
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AC ACA69381;
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DT 26-JUN-2003 (first entry)
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DE Human cDNA encoding secreted/transmembrane protein PRO846.
XX
KW Human; ss; gene; PRO; secreted protein; transmembrane protein;

KW cardiac insufficiency disorders; angiogenesis; wound healing;
KW cancerous tumour; immune response; retinal disorder; sight loss;
KW retinitis pigmentosum; age-related macular degeneration; AMD;
KW kidney disorder; Berger disease; nephropathy; dermatitis; herpetiformis;
KW Crohn's disease; sports injury; arthritis.
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OS Homo sapiens.
XX
PN US2003032023-A1.
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PD 13-FEB-2003.
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PF 14-NOV-2001; 2001US-00990711.
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PR   22-MAY-2000; 2000WO-US014042.
PR   30-MAY-2000; 2000WO-US014941.
PR   02-JUN-2000; 2000WO-US015264.
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Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
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Db        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300

Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
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Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
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Qy        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480
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Qy        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540
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Db        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540

Qy        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600
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Db        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600

Qy        601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660
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Qy        661 AGCTCCCGCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720
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Db        661 AGCTCCCGCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720

Qy        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
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Db        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780

Qy        781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840
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Qy        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900
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Db        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900

Qy        901 TCACGCTTGACTGCGGAGGAAAAGGAAGCCCCTTCCCAGGCCCCTGAGGGGGACGTGATC 960
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Db        901 TCACGCTTGACTGCGGAGGAAAAGGAAGCCCCTTCCCAGGCCCCTGAGGGGGACGTGATC 960

Qy        961 TCGATGCCTCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020
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Qy       1021 TAGGGCAGGAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
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Qy       1081 ACCGATTCCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
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Qy       1141 CTCCCCACCCTCCCCAGGCTCTCCTCTTGCATGTTCCAGCCTGACCTAGAAGCGTTTGTC 1200
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Qy       1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
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Qy       1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
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Qy       1921 GAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA 1980
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Qy       1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
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Qy       2161 ATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGG 2220
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Qy       2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCCA 2520
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Db       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
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RESULT 11
ACD24045
ID ACD24045 standard; cDNA; 2749 BP.
XX
AC ACD24045;
XX
DT 26-AUG-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO846 cDNA.
XX
KW Human; secreted and transmembrane protein; PRO; antiinflammatory;
KW antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic;
KW antidiabetic; gene therapy; tumour necrosis factor (TNF)-alpha release;
KW TNF-alpha release; cell proliferation; cell differentiation;
KW gene expression modulator; proteoglycan release; cytokine release;
KW tumour; inflammatory disease; organ failure; atherosclerosis;
KW cardiac injury; infertility; birth defect; premature aging; AIDS;
KW acquired immunodeficiency syndrome; cancer; diabetic complication;
KW chromosome mapping; gene mapping; pharmaceutical; diagnostic; biosensor;
KW bioreactor; tissue typing; gene; ss.
XX
OS Homo sapiens.
XX
PN US2003032156-A1.
XX
PD 13-FEB-2003.
XX
PF 06-MAY-2002; 2002US-00140474.
XX
PR 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.

PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2003-341980/32.
DR P-PSDB; ABO17808.
XX
PT New secreted and transmembrane PRO nucleic acids, for treating
PT inflammation, organ failure, atherosclerosis, cardiac injury,
PT infertility, birth defects, premature aging, axquired immunodeficiency
PT syndrome (AIDS), or cancer.
XX
PS Claim 2; Fig 385; 660pp; English.
XX
CC The invention describes an isolated nucleic acid (I) comprising, or which
CC has 80 % sequence identity to, or the full-length coding sequence of, one
CC of 275 nucleotide sequences, and which encodes a corresponding
CC polypeptide selected from 275 amino acid sequences, where all sequences
CC are given in the specification. The polypeptide encoded by (I) is used to
CC detect PRO polypeptides, link a bioactive molecule to a cell expressing a
CC PRO polypeptide, modulate a biological activity of a cell, stimulate the
CC release of tumour necrosis factor (TNF)-alpha from human blood, modulate
CC the uptake of glucose or free fatty acid by cells, stimulate or inhibit
CC the proliferation or differentiation of cells or gene expression,
CC stimulate the release of proteoglycans, stimulate the release of cytokine
CC from peripheral blood mononuclear cells, inhibit the binding of A-peptide
CC to factor VIIA, or detect the presence of tumour in a mammal. The nucleic
CC acid and polypeptide encoded by it, are useful for treating inflammatory
CC diseases, organ failure, atherosclerosis, cardiac injury, infertility,
CC birth defects, premature aging, acquired immunodeficiency syndrome
CC (AIDS), cancer, or diabetic complications. The nucleic acid is useful as
CC hybridisation probes, in chromosome and gene mapping, and in generating
CC antisense RNA or DNA. The polypeptides are useful as pharmaceuticals,
CC diagnostics, biosensors or bioreactors. Both are useful in tissue typing.
CC This sequence encodes a novel human secreted and transmembrane PRO
CC polypeptide
XX
SQ Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

Query Match 99.9%; Score 2747; DB 7; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
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Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
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Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
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Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
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Qy        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480
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Qy        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
Db        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
Qy        781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840
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Qy        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900
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Qy       1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320
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Db       1381 GACCCTGCCTTCCTCCCACTCCAGACCCCACCTTGTCTTCCCTCCCTGGCGTCCTCAGAC 1440
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Db       2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160
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Db       2221 GTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACC 2280
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Qy       2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700
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Db       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
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RESULT 12
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ID ABX90452 standard; cDNA; 2749 BP.
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AC ABX90452;
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DT 01-MAY-2003 (first entry)
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DE Human secreted/transmembrane protein cDNA, #183.
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KW Human; gene; ss; PRO; secreted; transmembrane; signal peptide;
KW pharmaceutical; diagnostic; therapeutic; gene therapy.
XX
OS Homo sapiens.
XX
PN US2002160384-A1.
XX
PD 31-OCT-2002.
XX
PF 14-NOV-2001; 2001US-00992598.
XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
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PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
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PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX
DR WPI; 2003-288106/28.
DR P-PSDB; ABU60624.
XX
PT New transmembrane polypeptides and nucleic acids encoding the
PT polypeptides, useful in gene therapy, in chromosome identification, as
PT chromosome markers, or in generating probes.
XX
PS Claim 2; Fig 329; 650pp; English.
XX
CC The invention discloses isolated PRO secreted/transmembrane polypeptides
CC comprising a sequence without signal peptide and the nucleic acid
CC encoding them. The polypeptides can be used to raise antibodies that
CC specifically bind to the PRO polypeptide, for linking a bioactive

CC molecule to a cell expressing a PRO protein and for modulating at least
CC one biological activity of a cell. The PRO polypeptides or
CC polynucleotides are also useful in gene therapy, in chromosome
CC identification, as chromosome markers, or in generating probes. The PRO
CC polypeptides are useful as molecular markers for protein electrophoresis,
CC and the isolated nucleic acids may be used for recombinantly expressing
CC those markers. The PRO polypeptides and nucleic acids may also be used in
CC tissue typing. Anti-PRO antibodies are useful in diagnostic assays for
CC PRO, and in affinity purification of PRO from recombinant cell culture or
CC natural sources. The sequences presented in ABX90083-ABX90468 are the
CC genes encoding, the primers amplifying and the probes detecting the PRO
CC polynucleotides of the invention. Note: The sequence data for this patent
CC is also available in electronic format from USPTO at
CC seqdata.uspto.gov/sequence.html
XX
SQ Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

Query Match 99.9%; Score 2747; DB 7; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
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Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
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Db        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180

Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
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Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
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Qy        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480
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Qy        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540
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Qy        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600
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DT   09-SEP-2003  (first entry)
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KW   Human; secreted and transmembrane protein; PRO; virucide; gene therapy;
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XX
PA (GETH) GENENTECH INC.
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PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;

Query Match 99.9%; Score 2747; DB 7; Length 2749;
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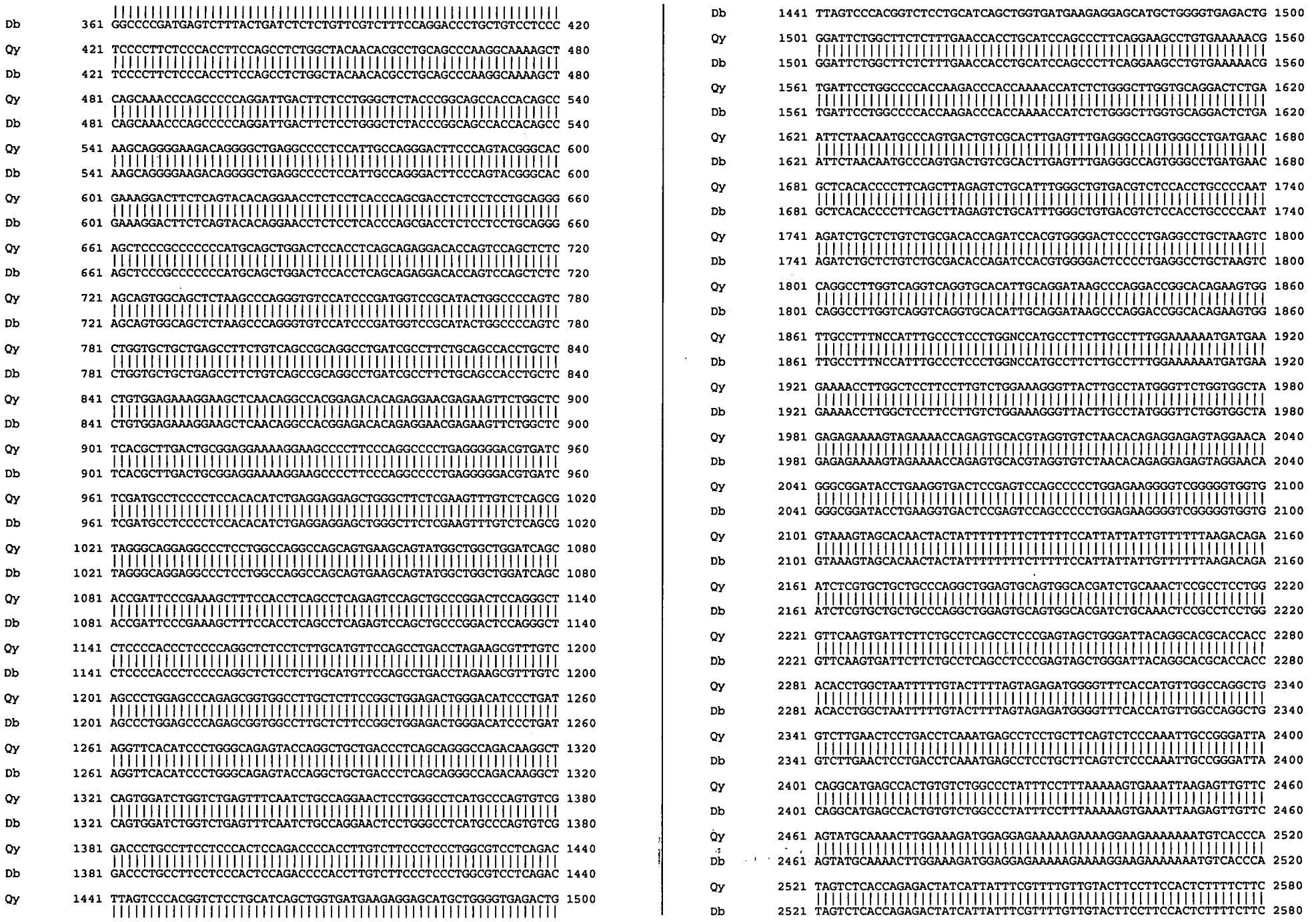
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Qy       2581 TTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGTA 2640
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Db       2581 TTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGTA 2640

Qy       2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700

Qy       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
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Db       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
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RESULT 14
ABX64298
ID ABX64298 standard; cDNA; 2749 BP.
XX
AC ABX64298;
XX
DT 26-FEB-2003 (first entry)
XX
DE cDNA encoding human PRO846 polypeptide.
XX
KW Human; PRO polypeptide; secreted protein; transmembrane protein;
KW genetic disorder; antibacterial; immunosuppressive; transgenic;
KW gene therapy; gene; ss.
XX
OS Homo sapiens.
XX
PN US2002103125-A1.
XX
PD 01-AUG-2002.
XX
PF 20-NOV-2001; 2001US-00989731.
XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
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PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
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PR 10-JUN-1998; 98US-0088824P.
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PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX
PA (GETH) GENENTECH LTD.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX
DR WPI; 2003-102117/09.
DR P-PSDB; ABU14006.
XX
PT Novel secreted and transmembrane polypeptide for modulating biological
PT activity of cell expressing the polypeptide, identifying agonists or
PT antagonists of polypeptide, and as molecular weight markers.
XX
PS Claim 2; Fig 329; 649pp; English.

```
XX
CC   The present invention relates to the isolation of novel human PRO
CC   polypeptides, and the polynucleotide sequences encoding them. The PRO
CC   polypeptides are secreted and transmembrane proteins. The PRO
CC   polypeptides are useful for detecting other PRO polypeptides, for linking
CC   bioactive molecules to cells expressing PRO polypeptides, for modulating
CC   biological activities of cells expressing PRO polypeptides, and for for
CC   identifying agonists or antagonists. The polynucleotide sequences
CC   encoding PRO polypeptides are useful as hybridisation probes, in
CC   chromosome and gene mapping, in the generation of antisense RNA and DNA,
CC   in the preparation of PRO polypeptides, for generating transgenic animals
CC   or knockout animals, to construct hybridisation probes for mapping the
CC   gene which encodes the PRO polypeptide, and for the genetic analysis of
CC   individuals with genetic disorders, in gene therapy, for chromosome
CC   identification, as chromosome markers, and for generating probes for PCR,
CC   Northern analysis, Southern analysis and Western analysis. The present
CC   sequence encodes a human PRO polypeptide of the invention. Note: The
CC   sequence data for this patent was obtained in electronic format directly
CC   from the USPTO web site at seqdata.uspto.gov/psipsDIDEntry.html
XX
SQ   Sequence 2749 BP; 599 A; 811 C; 698 G; 639 T; 0 U; 2 Other;

  Query Match             99.9%;  Score 2747;  DB 7;  Length 2749;
  Best Local Similarity   100.0%;  Pred. No. 0;
  Matches 2749;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
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Db          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
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Db         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120

Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
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Db        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180

Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
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Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
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Db        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360

Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
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Db        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420

Qy        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480
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Db        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480

Qy        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540
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Db        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540

Qy        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600
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Db        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600

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Qy        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
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Db        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780

Qy        781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840
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Db        781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840

Qy        841 CTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTC 900
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Qy        901 TCACGCTTGACTGCGGAGGAAAAGGAAGCCCCTTCCCAGGCCCCTGAGGGGGACGTGATC 960
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Db        961 TCGATGCCTCCCCTCCACACATCTGAGGAGGAGCTGGGCTTCTCGAAGTTTGTCTCAGCG 1020

Qy       1021 TAGGGCAGGAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
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Db       1021 TAGGGCAGGAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080

Qy       1081 ACCGATTCCCGAAAGCTTTCCACCTCAGCCTCAGAGTCCAGCTGCCCGGACTCCAGGGCT 1140
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Qy       1141 CTCCCCACCCTCCCCAGGCTCTCCTCTTGCATGTTCCAGCCTGACCTAGAAGCGTTTGTC 1200
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Qy       1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260
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Db       1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260

Qy       1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320
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Db       1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320

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Db       1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCTCATGCCCAGTGTCG 1380

Qy       1381 GACCCTGCCTTCCTCCCACTCCAGACCCCACCTTGTCTTCCCTCCCTGGCGTCCTCAGAC 1440
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Db       1381 GACCCTGCCTTCCTCCCACTCCAGACCCCACCTTGTCTTCCCTCCCTGGCGTCCTCAGAC 1440

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Db       1441 TTAGTCCCACGGTCTCCTGCATCAGCTGGTGATGAAGAGGAGCATGCTGGGGTGAGACTG 1500

Qy       1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
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Qy       1561 TGATTCCTGGCCCCACCAAGACCCACCAAAACCATCTCTGGGCTTGGTGCAGGACTCTGA 1620
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Qy       1801 CAGGCCTTGGTCAGGTCAGGTGCACATTGCAGGATAAGCCCAGGACCGGCACAGAAGTGG 1860
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Qy       1921 GAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA 1980
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Db       1921 GAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA 1980

Qy       1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
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Qy       2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160
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Qy       2161 ATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGG 2220
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Qy       2221 GTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACC 2280
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Db       2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340

Qy       2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400
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Db       2341 GTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTA 2400

Qy       2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTTC 2460
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Qy       2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCCA 2520
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Qy       2521 TAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTTC 2580
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Db       2521 TAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTTC 2580

Qy       2581 TTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTATATACAACTTTGTA 2640
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Qy       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
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Db       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749


RESULT 15
ACA67186
ID   ACA67186 standard; cDNA; 2749 BP.
XX
AC   ACA67186;
XX
DT   23-JUN-2003  (first entry)
XX
DE   cDNA encoding human PRO polypeptide #193.
XX
KW   Human; PRO polypeptide; secreted and transmembrane protein;
KW   anti-PRO antibody; diagnostic assay; gene expression; diabetes;
KW   bone disorder; cartilage disorder; rheumatoid arthritis; obesity;
KW   sports injury; osteoarthritis; hyper-insulinaemia; hypo-insulinaemia;
KW   hearing loss; coagulation disorder; stroke; heart attack; cardiant;
KW   antidiabetic; anorectic; vulnerary; antiarthritic; osteopathic;
KW   antirheumatic; auditory; cerebroprotective; angiogenic; gene; ss.
XX
OS   Homo sapiens.
XX
PN   US2003004311-A1.
XX
PD   02-JAN-2003.
XX
PF   19-DEC-2001; 2001US-00028072.
XX
PR   18-JUN-1997;   97US-0049911P.
PR   26-AUG-1997;   97US-0056974P.
PR   17-SEP-1997;   97US-0059113P.
PR   17-SEP-1997;   97US-0059115P.
PR   17-SEP-1997;   97US-0059117P.
PR   17-SEP-1997;   97US-0059122P.
PR   17-SEP-1997;   97US-0059184P.
PR   18-SEP-1997;   97US-0059263P.
PR   19-SEP-1997;   97US-0059352P.
PR   19-SEP-1997;   97US-0059588P.
PR   24-SEP-1997;   97US-0059836P.
PR   17-OCT-1997;   97US-0062250P.
PR   17-OCT-1997;   97US-0062285P.
PR   17-OCT-1997;   97US-0062287P.
PR   17-OCT-1997;   97US-0063755P.
PR   24-OCT-1997;   97US-0062814P.
PR   24-OCT-1997;   97US-0062816P.
PR   24-OCT-1997;   97US-0063045P.
PR   24-OCT-1997;   97US-0063082P.
PR   24-OCT-1997;   97US-0063127P.
PR   27-OCT-1997;   97US-0063327P.
PR   27-OCT-1997;   97US-0063329P.
PR   28-OCT-1997;   97US-0063550P.
PR   28-OCT-1997;   97US-0063561P.
PR   29-OCT-1997;   97US-0063704P.
PR   29-OCT-1997;   97US-0063733P.
PR   29-OCT-1997;   97US-0063735P.
PR   29-OCT-1997;   97US-0063738P.
PR   03-NOV-1997;   97US-0064248P.
PR   07-NOV-1997;   97US-0064809P.
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PR   14-SEP-1998;   98WO-US019094.
PR   14-SEP-1998;   98WO-US019177.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98WO-US019437.
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PR   29-OCT-1998;   98WO-US022991.
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PR   01-DEC-1998;   98WO-US025108.
PR   05-JAN-1999;   99WO-US000106.
PR   08-MAR-1999;   99WO-US005028.
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PR   20-APR-1999;   99WO-US008615.
PR   14-MAY-1999;   99WO-US010733.
PR   02-JUN-1999;   99WO-US012252.
PR   01-SEP-1999;   99WO-US020111.
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PR   13-SEP-1999;   99WO-US020944.
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PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   30-NOV-1999;   99WO-US028409.
PR   01-DEC-1999;   99WO-US028301.
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PR   20-DEC-1999;   99WO-US030911.
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PR   30-DEC-1999;   99WO-US031243.
PR   30-DEC-1999;   99WO-US031274.
PR   05-JAN-2000; 2000WO-US000219.
PR   06-JAN-2000; 2000WO-US000277.
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PR   01-MAR-2000; 2000WO-US005601.
PR   02-MAR-2000; 2000WO-US005746.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Baker KP,  Beresini M,  Deforge L,  Desnoyers L,  Filvaroff E,  Gao W;
PI   Gerritsen ME,  Goddard A,  Godowski PJ,  Gurney AL,  Sherwood S;
PI   Smith V,  Stewart TA,  Tumas D,  Watanabe CK,  Wood WI,  Zhang Z;
XX
DR   WPI; 2003-352836/33.
DR   P-PSDB; ABU81062.
XX
PT   New isolated PRO polypeptide useful for treating diabetes, rheumatoid
PT   arthritis, sports injuries, obesity, hearing loss in mammals, stroke, or
PT   heart attack.
XX
PS   Claim 2; Fig 385; 643pp; English.
XX
CC   The present invention relates to the isolation of novel human PRO
CC   polypeptides, and the polynucleotide sequences encoding them. The PRO
CC   polypeptides are secreted and transmembrane proteins. The PRO
CC   polypeptides and polynucleotides are useful for preparing a medicament
CC   useful in the treatment of diabetes, bone and/or cartilage disorders
CC   (e.g. rheumatoid arthritis, sports injuries, osteoarthritis), obesity,
CC   hyper- or hypo-insulinaemia, hearing loss, and coagulation disorders
CC   (e.g. stroke, heart attack). Anti-PRO antibodies are useful in diagnostic
CC   assays for PRO, by detecting its expression in specific cells, tissues or
CC   serum, and for affinity purification of PRO from recombinant cell culture
CC   or natural sources. ACA66994-ACA67268 represent cDNA sequences encoding
CC   the human PRO polypeptides of the invention. Note: The sequence data for
CC   this patent was obtained in electronic format directly from the USPTO web
CC   site at seqdata.uspto.gov/psipsDIDEntry.html
XX
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Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
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Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
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Qy      1021 TAGGGCAGGAGGCCCTCCTGGCCAGGCCAGCAGTGAAGCAGTATGGCTGGCTGGATCAGC 1080
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GenCore version 5.1.6

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Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

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Post-processing: Minimum Match 0%
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Listing first 1500 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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	2	216	7.9	44848	4	US-09-435-739-42	Sequence 42, Appl
	3	214.8	7.8	22481	4	US-08-367-841A-43	Sequence 43, Appl
	4	214.8	7.8	22481	5	PCT-US95-07201-43	Sequence 43, Appl
	5	214.8	7.8	22484	4	US-09-875-223-2	Sequence 2, Appli
	6	214.8	7.8	22484	4	US-09-875-114-2	Sequence 2, Appli
	7	214.6	7.8	14581	4	US-08-520-373D-4	Sequence 4, Appli
c	8	213	7.7	13865	3	US-09-009-217-11	Sequence 11, Appl
c	9	213	7.7	13865	3	US-09-009-656-11	Sequence 11, Appl
c	10	209.8	7.6	44848	4	US-09-435-739-42	Sequence 42, Appl
c	11	209.2	7.6	87350	3	US-08-781-891-79	Sequence 79, Appl
c	12	209.2	7.6	87350	4	US-09-618-166-79	Sequence 79, Appl
c	13	209.2	7.6	87543	4	US-09-791-211-3	Sequence 3, Appli
	14	207.8	7.6	1701	3	US-09-078-294-9	Sequence 9, Appli
	15	207.8	7.6	53332	4	US-09-801-861-3	Sequence 3, Appli
	16	207.4	7.5	4823	2	US-08-457-254-5	Sequence 5, Appli
	17	207.4	7.5	4823	2	US-08-484-257-20	Sequence 20, Appl
	18	207.4	7.5	4823	3	US-08-999-927-5	Sequence 5, Appli
	19	207.4	7.5	4823	4	US-08-461-819-5	Sequence 5, Appli
	20	207.4	7.5	4823	5	PCT-US94-08806-28	Sequence 28, Appl
	21	207.4	7.5	4823	5	PCT-US95-01829-5	Sequence 5, Appli
	22	207.4	7.5	4823	5	PCT-US95-16626-5	Sequence 5, Appli
	23	206.8	7.5	21784	4	US-09-820-002-3	Sequence 3, Appli
	24	206.6	7.5	18853	4	US-09-820-005-3	Sequence 3, Appli
	25	206.6	7.5	55298	4	US-09-491-356C-1	Sequence 1, Appli
	26	205.8	7.5	2758	4	US-09-620-312D-884	Sequence 884, App
c	27	205.6	7.5	246240	2	US-08-724-394A-20	Sequence 20, Appl
c	28	205.6	7.5	246240	2	US-08-724-394A-21	Sequence 21, Appl
c	29	205.6	7.5	246240	2	US-08-724-394A-22	Sequence 22, Appl
c	30	204.8	7.4	55827	4	US-09-813-133A-3	Sequence 3, Appli
c	31	204.4	7.4	1332	4	US-09-584-568C-1	Sequence 1, Appli
c	32	204.4	7.4	45546	4	US-09-146-053-6	Sequence 6, Appli
	33	204.4	7.4	90541	4	US-09-759-359A-3	Sequence 3, Appli
c	34	204.2	7.4	841	5	PCT-US93-06251-80	Sequence 80, Appl
c	35	204.2	7.4	841	5	PCT-US93-06251-81	Sequence 81, Appl
c	36	203.4	7.4	62804	4	US-09-800-960-3	Sequence 3, Appli
c	37	203.4	7.4	62804	4	US-10-096-960-3	Sequence 3, Appli
	38	203.2	7.4	4352	4	US-09-620-312D-555	Sequence 555, App
	39	203	7.4	72604	4	US-09-268-992-7	Sequence 7, Appli
	40	203	7.4	72604	4	US-09-657-474-7	Sequence 7, Appli
c	41	202.8	7.4	112132	4	US-09-741-150-3	Sequence 3, Appli
c	42	202.8	7.4	112132	4	US-10-160-187-3	Sequence 3, Appli
	43	202.2	7.4	15977	4	US-09-608-285A-59	Sequence 59, Appl
	44	202.2	7.4	32042	4	US-09-245-281-44	Sequence 44, Appl
	45	202.2	7.4	32042	4	US-09-340-620A-63	Sequence 63, Appl
c	46	202.2	7.4	53332	4	US-09-801-861-3	Sequence 3, Appli
	47	202.2	7.4	80595	3	US-09-078-294-3	Sequence 3, Appli
	48	201.8	7.3	14747	4	US-09-608-285A-42	Sequence 42, Appl
	49	201.8	7.3	14747	4	US-09-557-800C-42	Sequence 42, Appl
c	50	201.4	7.3	1426	4	US-09-620-312D-967	Sequence 967, App
c	51	201	7.3	21968	4	US-09-851-985-3	Sequence 3, Appli
	52	200.8	7.3	49312	4	US-09-671-317-485	Sequence 485, App
c	53	200.6	7.3	21234	4	US-09-810-671-3	Sequence 3, Appli
c	54	200.6	7.3	21234	4	US-10-109-854-3	Sequence 3, Appli
	55	200.6	7.3	43950	4	US-09-735-934A-3	Sequence 3, Appli
	56	200.6	7.3	43950	4	US-10-060-332-3	Sequence 3, Appli
	57	200.4	7.3	631	3	US-09-385-982-354	Sequence 354, App
c	58	200.4	7.3	17000	4	US-09-548-797B-7	Sequence 7, Appli
	59	200.2	7.3	26664	4	US-09-564-805-28	Sequence 28, Appl
	60	200	7.3	6769	1	US-08-480-784-20	Sequence 20, Appl
	61	200	7.3	6769	1	US-08-483-553-20	Sequence 20, Appl
	62	200	7.3	6769	1	US-08-487-002-20	Sequence 20, Appl
	63	200	7.3	6769	1	US-08-483-554B-20	Sequence 20, Appl
	64	200	7.3	6769	1	US-08-488-011B-20	Sequence 20, Appl
	65	200	7.3	6769	3	US-08-850-727-20	Sequence 20, Appl
	66	200	7.3	6769	5	PCT-US95-10202-20	Sequence 20, Appl
	67	200	7.3	6769	5	PCT-US95-10203-20	Sequence 20, Appl
	68	200	7.3	6769	5	PCT-US95-10220-20	Sequence 20, Appl
	69	200	7.3	174493	4	US-09-804-471A-3	Sequence 3, Appli
	70	200	7.3	174493	4	US-10-238-709-3	Sequence 3, Appli
c	71	199.8	7.3	6063	1	US-08-195-744-4	Sequence 4, Appli
c	72	199.8	7.3	6063	2	US-08-788-279-4	Sequence 4, Appli
c	73	199.8	7.3	11288	3	US-08-646-301A-1	Sequence 1, Appli
c	74	199.8	7.3	11288	4	US-08-481-968A-4	Sequence 4, Appli
c	75	199.8	7.3	11288	4	US-08-154-712B-4	Sequence 4, Appli
c	76	199.8	7.3	15056	4	US-09-474-699-10	Sequence 10, Appl
c	77	199.6	7.3	14796	3	US-08-975-080-35	Sequence 35, Appl
c	78	199.6	7.3	14796	3	US-09-630-706-10	Sequence 10, Appl
c	79	199.6	7.3	14796	4	US-09-496-694B-3	Sequence 3, Appli
	80	199	7.2	21234	4	US-09-810-671-3	Sequence 3, Appli
	81	199	7.2	21234	4	US-10-109-854-3	Sequence 3, Appli
	82	198.4	7.2	2932	4	US-09-016-434-1419	Sequence 1419, Ap
	83	198.4	7.2	4108	4	US-09-883-096-1	Sequence 1, Appli
c	84	198.4	7.2	319608	4	US-09-679-409-1	Sequence 1, Appli
c	85	198.2	7.2	685	4	US-09-183-266A-16	Sequence 16, Appl
c	86	198.2	7.2	17327	1	US-07-906-871-15	Sequence 15, Appl
	87	198.2	7.2	74962	4	US-09-685-853A-3	Sequence 3, Appli
c	88	198	7.2	319608	4	US-09-539-333D-1	Sequence 1, Appli
c	89	197.8	7.2	11531	1	US-08-068-945A-1	Sequence 1, Appli
c	90	197.8	7.2	11531	1	US-08-442-806-1	Sequence 1, Appli
c	91	197.8	7.2	11531	4	US-09-355-295B-1	Sequence 1, Appli
c	92	197.6	7.2	313	4	US-09-621-976-13292	Sequence 13292, A
	93	197.6	7.2	3172	4	US-08-978-289-11	Sequence 11, Appl
c	94	197.4	7.2	1301	4	US-09-539-333D-36	Sequence 36, Appl
c	95	197.4	7.2	1386	4	US-09-539-333D-40	Sequence 40, Appl
c	96	197.4	7.2	2115	1	US-08-395-800A-7	Sequence 7, Appli
c	97	197.4	7.2	19736	4	US-09-740-035-3	Sequence 3, Appli
	98	197.4	7.2	162450	4	US-09-345-882-1	Sequence 1, Appli
c	99	197.2	7.2	25464	4	US-09-326-480A-4	Sequence 4, Appli
	100	197	7.2	2841	4	US-09-526-193A-24	Sequence 24, Appl

	101	197	7.2	18554	4	US-09-811-825A-3	Sequence 3, Appli
	102	197	7.2	111282	4	US-09-754-250-3	Sequence 3, Appli
c	103	197	7.2	176373	3	US-09-128-155-17	Sequence 17, Appl
c	104	196.8	7.2	500	4	US-09-621-976-15608	Sequence 15608, A
c	105	196.8	7.2	510	4	US-09-621-976-9306	Sequence 9306, Ap
	106	196.8	7.2	3027	4	US-09-620-312D-563	Sequence 563, App
	107	196.8	7.2	48763	4	US-09-916-204-3	Sequence 3, Appli
c	108	196.6	7.2	282	1	US-08-133-629-8	Sequence 8, Appli
	109	196.6	7.2	45716	4	US-08-965-048-5	Sequence 5, Appli
	110	196.6	7.2	45989	4	US-08-965-048-6	Sequence 6, Appli
	111	196.6	7.2	75395	4	US-09-984-890-3	Sequence 3, Appli
	112	196.4	7.1	6669	3	US-09-212-971-5	Sequence 5, Appli
	113	196.4	7.1	6669	3	US-08-800-929A-5	Sequence 5, Appli
	114	196.4	7.1	6669	4	US-09-617-053A-5	Sequence 5, Appli
	115	196.4	7.1	6669	4	US-09-672-717-230	Sequence 230, App
c	116	196.4	7.1	8453	3	US-09-167-681-45	Sequence 45, Appl
c	117	196.4	7.1	35060	3	US-08-814-095-7	Sequence 7, Appli
	118	196.2	7.1	4668	3	US-09-045-301-1	Sequence 1, Appli
	119	195.8	7.1	1001	4	US-09-671-317-457	Sequence 457, App
c	120	195.8	7.1	20303	1	US-08-370-975B-6	Sequence 6, Appli
c	121	195.8	7.1	26764	1	US-08-370-975B-1	Sequence 1, Appli
	122	195.8	7.1	81001	4	US-09-750-580-1	Sequence 1, Appli
	123	195.4	7.1	42571	4	US-09-810-347-3	Sequence 3, Appli
	124	195.4	7.1	80246	3	US-09-078-294-4	Sequence 4, Appli
	125	195.4	7.1	392000	4	US-10-027-983-11	Sequence 11, Appl
	126	195	7.1	63000	4	US-09-780-172-18	Sequence 18, Appl
	127	194.8	7.1	1855	4	US-09-023-655-1380	Sequence 1380, Ap
	128	194.6	7.1	66804	4	US-09-740-041-3	Sequence 3, Appli
c	129	194.6	7.1	99500	4	US-09-798-096-10	Sequence 10, Appl
	130	194.6	7.1	152331	3	US-09-128-155-16	Sequence 16, Appl
	131	194.4	7.1	112132	4	US-09-741-150-3	Sequence 3, Appli
	132	194.4	7.1	112132	4	US-10-160-187-3	Sequence 3, Appli
c	133	194.2	7.1	283	4	US-08-579-445-26	Sequence 26, Appl
	134	194.2	7.1	84495	4	US-09-797-906-3	Sequence 3, Appli
c	135	194	7.1	46718	4	US-09-816-093-3	Sequence 3, Appli
c	136	193.8	7.0	4038	3	US-08-969-125-8	Sequence 8, Appli
	137	193.8	7.0	8453	3	US-09-167-681-45	Sequence 45, Appl
c	138	193.8	7.0	20966	4	US-09-776-976-7	Sequence 7, Appli
c	139	193.8	7.0	20966	4	US-09-909-547-7	Sequence 7, Appli
c	140	193.8	7.0	20966	4	US-09-569-852B-1	Sequence 1, Appli
	141	193.8	7.0	128779	4	US-09-497-855A-38	Sequence 38, Appl
c	142	193.6	7.0	399	4	US-09-621-976-13959	Sequence 13959, A
	143	193.6	7.0	24707	4	US-09-740-027-3	Sequence 3, Appli
	144	193.4	7.0	9365	4	US-09-608-285A-8	Sequence 8, Appli
	145	193.4	7.0	9365	4	US-09-350-836B-8	Sequence 8, Appli
	146	193.4	7.0	9365	4	US-09-370-265-8	Sequence 8, Appli
	147	193.4	7.0	9365	4	US-09-557-800C-8	Sequence 8, Appli
	148	193.4	7.0	9365	4	US-09-370-625A-8	Sequence 8, Appli
c	149	193.4	7.0	21721	4	US-09-269-939A-41	Sequence 41, Appl
c	150	193.4	7.0	22976	4	US-09-269-939A-19	Sequence 19, Appl
c	151	193.4	7.0	23187	4	US-09-499-522-1	Sequence 1, Appli
	152	193.4	7.0	92139	4	US-09-918-686-1	Sequence 1, Appli
	153	193.2	7.0	70000	4	US-09-851-896-3	Sequence 3, Appli
	154	193.2	7.0	118067	4	US-09-497-855A-32	Sequence 32, Appl
	155	193	7.0	39982	4	US-09-820-924-3	Sequence 3, Appli
	156	193	7.0	53526	3	US-08-658-136-2	Sequence 2, Appli
	157	193	7.0	53577	3	US-08-658-136-1	Sequence 1, Appli
c	158	193	7.0	116592	4	US-09-818-512-3	Sequence 3, Appli
c	159	192.8	7.0	128779	4	US-09-497-855A-38	Sequence 38, Appl
c	160	192.6	7.0	5044	4	US-09-735-935-3	Sequence 3, Appli
c	161	192.6	7.0	48763	4	US-09-916-204-3	Sequence 3, Appli
c	162	192.4	7.0	368	4	US-09-621-976-10146	Sequence 10146, A
c	163	192.4	7.0	63588	4	US-09-873-404-3	Sequence 3, Appli
	164	192.4	7.0	72928	3	US-09-009-913-1	Sequence 1, Appli
	165	192.4	7.0	246240	2	US-08-724-394A-20	Sequence 20, Appl
	166	192.4	7.0	246240	2	US-08-724-394A-21	Sequence 21, Appl
	167	192.4	7.0	246240	2	US-08-724-394A-22	Sequence 22, Appl
	168	192.2	7.0	62804	4	US-09-800-960-3	Sequence 3, Appli
	169	192.2	7.0	62804	4	US-10-096-960-3	Sequence 3, Appli
	170	192.2	7.0	98844	4	US-09-791-211-10	Sequence 10, Appl
	171	192	7.0	64467	4	US-09-803-671B-3	Sequence 3, Appli
c	172	191.8	7.0	162450	4	US-09-345-882-1	Sequence 1, Appli
	173	191.8	7.0	202001	4	US-09-734-674-3	Sequence 3, Appli
c	174	191.4	7.0	15297	4	US-09-817-180-3	Sequence 3, Appli
c	175	191.4	7.0	15297	4	US-10-003-295-3	Sequence 3, Appli
	176	191.2	7.0	2061	2	US-08-960-022-11	Sequence 11, Appl
c	177	191.2	7.0	3683	4	US-09-844-634-3	Sequence 3, Appli
c	178	191.2	7.0	3683	4	US-09-968-455-1	Sequence 1, Appli
	179	191.2	7.0	4736	4	US-09-526-193A-15	Sequence 15, Appl
	180	191.2	7.0	6218	4	US-09-023-655-1203	Sequence 1203, Ap
c	181	191	6.9	1430	4	US-09-489-847-39	Sequence 39, Appl
c	182	191	6.9	75395	4	US-09-984-890-3	Sequence 3, Appli
c	183	190.8	6.9	148567	4	US-09-801-876B-3	Sequence 3, Appli
c	184	190.8	6.9	148567	4	US-10-254-869-3	Sequence 3, Appli
	185	190.6	6.9	1001	4	US-09-671-317-238	Sequence 238, App
	186	190.6	6.9	1001	4	US-09-671-317-239	Sequence 239, App
c	187	190.6	6.9	1043	4	US-09-165-868-4	Sequence 4, Appli
c	188	190.6	6.9	1601	4	US-09-016-434-1218	Sequence 1218, Ap
c	189	190.6	6.9	1601	4	US-09-023-655-1122	Sequence 1122, Ap
	190	190.6	6.9	19736	4	US-09-740-035-3	Sequence 3, Appli
c	191	190.6	6.9	21784	4	US-09-820-002-3	Sequence 3, Appli
c	192	190.6	6.9	41684	4	US-09-536-059-1	Sequence 1, Appli
c	193	190.6	6.9	43950	4	US-09-735-934A-3	Sequence 3, Appli
c	194	190.6	6.9	43950	4	US-10-060-332-3	Sequence 3, Appli
	195	190.4	6.9	444	4	US-09-621-976-12675	Sequence 12675, A
c	196	190.4	6.9	43069	4	US-09-292-542A-1	Sequence 1, Appli
c	197	190.2	6.9	601	4	US-09-820-002-8	Sequence 8, Appli
c	198	190	6.9	1189	4	US-09-369-247-22	Sequence 22, Appl
c	199	190	6.9	55298	4	US-09-491-356C-1	Sequence 1, Appli
c	200	190	6.9	72604	4	US-09-268-992-7	Sequence 7, Appli
c	201	190	6.9	72604	4	US-09-657-474-7	Sequence 7, Appli
	202	189.8	6.9	374	3	US-09-385-982-135	Sequence 135, App
c	203	189.8	6.9	1154	4	US-09-539-333D-37	Sequence 37, Appl
c	204	189.8	6.9	2426	4	US-09-439-313-470	Sequence 470, App
c	205	189.8	6.9	2426	4	US-09-352-616A-470	Sequence 470, App
c	206	189.8	6.9	2426	4	US-09-636-215-470	Sequence 470, App
c	207	189.8	6.9	2426	4	US-09-685-166A-470	Sequence 470, App
c	208	189.8	6.9	15788	4	US-09-920-759-13	Sequence 13, Appl
c	209	189.6	6.9	1355	4	US-09-370-838-31	Sequence 31, Appl
	210	189.6	6.9	3166	4	US-09-341-587-8	Sequence 8, Appli
	211	189.6	6.9	15297	4	US-09-817-180-3	Sequence 3, Appli
	212	189.6	6.9	15297	4	US-10-003-295-3	Sequence 3, Appli
	213	189.6	6.9	17000	4	US-09-679-299A-18	Sequence 18, Appl
	214	189.6	6.9	36741	3	US-09-301-665-3	Sequence 3, Appli
c	215	189.6	6.9	36741	3	US-09-301-665-3	Sequence 3, Appli
	216	189.6	6.9	99500	4	US-09-798-096-10	Sequence 10, Appl
	217	189.4	6.9	9704	4	US-09-814-951A-3	Sequence 3, Appli
	218	189.4	6.9	50000	4	US-09-146-053-3	Sequence 3, Appli
c	219	189.2	6.9	1419	3	US-08-943-731-154	Sequence 154, App
c	220	189.2	6.9	1638	4	US-09-620-312D-810	Sequence 810, App
c	221	189.2	6.9	2477	1	US-08-429-742-1	Sequence 1, Appli
c	222	189.2	6.9	4285	3	US-09-040-774-1	Sequence 1, Appli
c	223	189.2	6.9	17606	3	US-08-943-731-4	Sequence 4, Appli
c	224	189.2	6.9	50000	4	US-09-146-053-3	Sequence 3, Appli
	225	189.2	6.9	168575	4	US-09-426-290-1	Sequence 1, Appli
c	226	189	6.9	7210	2	US-08-257-963B-10	Sequence 10, Appl
c	227	189	6.9	7210	4	US-08-367-841A-10	Sequence 10, Appl
c	228	189	6.9	7210	5	PCT-US95-07201-10	Sequence 10, Appl
c	229	189	6.9	14581	4	US-08-520-373D-4	Sequence 4, Appli
c	230	189	6.9	22481	4	US-08-367-841A-43	Sequence 43, Appl
c	231	189	6.9	22481	5	PCT-US95-07201-43	Sequence 43, Appl
c	232	189	6.9	22484	4	US-09-875-223-2	Sequence 2, Appli
c	233	189	6.9	22484	4	US-09-875-114-2	Sequence 2, Appli
c	234	189	6.9	64467	4	US-09-803-671B-3	Sequence 3, Appli
c	235	188.8	6.9	385	4	US-09-621-976-9359	Sequence 9359, Ap
c	236	188.8	6.9	1333	4	US-09-370-838-28	Sequence 28, Appl
c	237	188.8	6.9	1758	4	US-09-370-838-25	Sequence 25, Appl
c	238	188.8	6.9	7050	4	US-09-976-594-683	Sequence 683, App
	239	188.8	6.9	12047	2	US-09-022-461-1	Sequence 1, Appli
	240	188.8	6.9	12047	4	US-09-033-556-3	Sequence 3, Appli
	241	188.8	6.9	12047	4	US-09-474-699-11	Sequence 11, Appl
	242	188.8	6.9	12047	4	US-09-151-376-3	Sequence 3, Appli
c	243	188.6	6.9	1328	4	US-09-370-838-24	Sequence 24, Appl
	244	188.6	6.9	2284	4	US-09-866-028-82	Sequence 82, Appl
c	245	188.6	6.9	18000	4	US-09-657-346A-17	Sequence 17, Appl
c	246	188.6	6.9	83450	4	US-09-811-469-3	Sequence 3, Appli

247	188.6	6.9	786431	4	US-09-751-389-3	Sequence 3, Appli
c 248	188.4	6.9	1762	4	US-09-443-184-35	Sequence 35, Appl
c 249	188.4	6.9	90541	4	US-09-759-359A-3	Sequence 3, Appli
250	188.2	6.8	646	3	US-09-385-982-314	Sequence 314, App
251	188.2	6.8	4192	4	US-09-122-126B-1	Sequence 1, Appli
252	188.2	6.8	4192	4	US-09-634-286A-1	Sequence 1, Appli
253	188.2	6.8	5596	3	US-09-078-294-5	Sequence 5, Appli
254	188.2	6.8	7210	2	US-08-257-963B-10	Sequence 10, Appl
255	188.2	6.8	7210	4	US-08-367-841A-10	Sequence 10, Appl
256	188.2	6.8	7210	5	PCT-US95-07201-10	Sequence 10, Appl
c 257	188.2	6.8	9837	1	US-08-832-883-68	Sequence 68, Appl
c 258	188.2	6.8	9837	2	US-08-832-877-68	Sequence 68, Appl
259	188.2	6.8	31571	1	US-08-323-443B-1	Sequence 1, Appli
260	188.2	6.8	38564	4	US-09-734-673-3	Sequence 3, Appli
c 261	188	6.8	328	4	US-09-621-976-7982	Sequence 7982, Ap
c 262	188	6.8	1331	4	US-09-370-838-27	Sequence 27, Appl
263	188	6.8	16891	4	US-09-486-147-1	Sequence 1, Appli
c 264	188	6.8	29629	4	US-09-729-995-3	Sequence 3, Appli
c 265	188	6.8	29629	4	US-10-135-689-3	Sequence 3, Appli
c 266	188	6.8	66804	4	US-09-740-041-3	Sequence 3, Appli
c 267	187.8	6.8	314	4	US-09-621-976-7928	Sequence 7928, Ap
c 268	187.8	6.8	314	4	US-09-621-976-7933	Sequence 7933, Ap
c 269	187.8	6.8	314	4	US-09-621-976-8396	Sequence 8396, Ap
c 270	187.8	6.8	314	4	US-09-621-976-8760	Sequence 8760, Ap
c 271	187.8	6.8	314	4	US-09-621-976-8807	Sequence 8807, Ap
272	187.8	6.8	36159	4	US-09-749-588-3	Sequence 3, Appli
c 273	187.8	6.8	36651	4	US-09-738-894A-3	Sequence 3, Appli
c 274	187.8	6.8	36651	4	US-09-964-469-3	Sequence 3, Appli
c 275	187.6	6.8	1000	3	US-09-018-584A-32	Sequence 32, Appl
c 276	187.6	6.8	13205	4	US-09-835-811-3	Sequence 3, Appli
c 277	187.6	6.8	15602	4	US-09-844-634-17	Sequence 17, Appl
c 278	187.6	6.8	19650	4	US-09-819-989-3	Sequence 3, Appli
c 279	187.6	6.8	19650	4	US-10-273-992-3	Sequence 3, Appli
280	187.6	6.8	51552	4	US-09-733-294A-30	Sequence 30, Appl
c 281	187.4	6.8	20674	4	US-09-641-638-651	Sequence 651, App
c 282	187.4	6.8	22255	4	US-09-616-289-51	Sequence 51, Appl
283	187.4	6.8	25603	4	US-09-819-607-3	Sequence 3, Appli
c 284	187.4	6.8	193303	4	US-09-497-855A-37	Sequence 37, Appl
c 285	187.4	6.8	193303	4	US-09-497-855A-44	Sequence 44, Appl
286	187.2	6.8	1643	4	US-09-599-360B-53	Sequence 53, Appl
c 287	187.2	6.8	4042	3	US-08-406-030A-17	Sequence 17, Appl
288	187.2	6.8	7676	1	US-08-451-777A-7	Sequence 7, Appli
289	187.2	6.8	7676	2	US-08-451-778A-7	Sequence 7, Appli
290	187.2	6.8	7676	2	US-08-998-208-7	Sequence 7, Appli
291	187.2	6.8	7676	5	PCT-US95-06743-7	Sequence 7, Appli
c 292	187	6.8	314	4	US-09-621-976-7883	Sequence 7883, Ap
c 293	187	6.8	6235	3	US-09-305-384-5	Sequence 5, Appli
c 294	187	6.8	6235	4	US-09-525-160B-6	Sequence 6, Appli
c 295	187	6.8	6679	3	US-09-305-384-1	Sequence 1, Appli
c 296	187	6.8	6679	4	US-09-525-160B-5	Sequence 5, Appli
c 297	187	6.8	174493	4	US-09-804-471A-3	Sequence 3, Appli
c 298	187	6.8	174493	4	US-10-238-709-3	Sequence 3, Appli
c 299	186.8	6.8	319	4	US-09-621-976-13129	Sequence 13129, A
300	186.8	6.8	1554	4	US-09-716-129-14	Sequence 14, Appl
301	186.8	6.8	3001	4	US-09-539-333D-211	Sequence 211, App
c 302	186.8	6.8	6139	4	US-08-843-076D-33	Sequence 33, Appl
c 303	186.8	6.8	152331	3	US-09-128-155-16	Sequence 16, Appl
c 304	186.8	6.8	786431	4	US-09-751-389-3	Sequence 3, Appli
c 305	186.6	6.8	319	4	US-09-621-976-19267	Sequence 19267, A
c 306	186.6	6.8	497	4	US-09-621-976-3876	Sequence 3876, Ap
c 307	186.6	6.8	3492	4	US-09-023-655-1219	Sequence 1219, Ap
c 308	186.6	6.8	12146	4	US-09-277-457-27	Sequence 27, Appl
c 309	186.6	6.8	12146	4	US-09-679-729-27	Sequence 27, Appl
c 310	186.6	6.8	51552	4	US-09-733-294A-30	Sequence 30, Appl
c 311	186.4	6.8	6769	1	US-08-480-784-20	Sequence 20, Appl
c 312	186.4	6.8	6769	1	US-08-483-553-20	Sequence 20, Appl
c 313	186.4	6.8	6769	1	US-08-487-002-20	Sequence 20, Appl
c 314	186.4	6.8	6769	1	US-08-483-554B-20	Sequence 20, Appl
c 315	186.4	6.8	6769	1	US-08-488-011B-20	Sequence 20, Appl
c 316	186.4	6.8	6769	3	US-08-850-727-20	Sequence 20, Appl
c 317	186.4	6.8	6769	5	PCT-US95-10202-20	Sequence 20, Appl
c 318	186.4	6.8	6769	5	PCT-US95-10203-20	Sequence 20, Appl
c 319	186.4	6.8	6769	5	PCT-US95-10220-20	Sequence 20, Appl
320	186.4	6.8	8758	4	US-09-799-345-3	Sequence 3, Appli
321	186.4	6.8	8758	4	US-09-962-276-3	Sequence 3, Appli
c 322	186.4	6.8	20966	4	US-09-984-880-3	Sequence 3, Appli
323	186.4	6.8	20966	4	US-09-776-976-7	Sequence 7, Appli
324	186.4	6.8	20966	4	US-09-909-547-7	Sequence 7, Appli
325	186.4	6.8	20966	4	US-09-569-852B-1	Sequence 1, Appli
c 326	186.4	6.8	20966	4	US-10-277-032-3	Sequence 3, Appli
327	186.4	6.8	40000	4	US-09-780-049-18	Sequence 18, Appl
328	186.4	6.8	83450	4	US-09-811-469-3	Sequence 3, Appli
c 329	186.4	6.8	84495	4	US-09-797-906-3	Sequence 3, Appli
c 330	186.4	6.8	92139	4	US-09-918-686-1	Sequence 1, Appli
c 331	186.2	6.8	328	4	US-09-621-976-8398	Sequence 8398, Ap
c 332	186.2	6.8	420	4	US-09-621-976-15374	Sequence 15374, A
c 333	186.2	6.8	4129	2	US-08-370-319C-12	Sequence 12, Appl
c 334	186.2	6.8	4129	3	US-09-224-834-12	Sequence 12, Appl
c 335	186.2	6.8	45716	4	US-08-965-048-5	Sequence 5, Appli
c 336	186.2	6.8	45989	4	US-08-965-048-6	Sequence 6, Appli
c 337	186.2	6.8	70000	4	US-09-851-896-3	Sequence 3, Appli
338	186.2	6.8	116592	4	US-09-818-512-3	Sequence 3, Appli
c 339	186.2	6.8	202001	4	US-09-734-674-3	Sequence 3, Appli
340	186	6.8	489	4	US-09-370-838-109	Sequence 109, App
c 341	186	6.8	1001	4	US-09-671-317-160	Sequence 160, App
c 342	186	6.8	2000	4	US-09-705-267A-19	Sequence 19, Appl
c 343	186	6.8	4233	3	US-09-056-105-27	Sequence 27, Appl
c 344	185.8	6.8	314	4	US-09-621-976-7899	Sequence 7899, Ap
c 345	185.8	6.8	328	4	US-09-621-976-8489	Sequence 8489, Ap
346	185.8	6.8	851	4	US-09-495-050A-138	Sequence 138, App
347	185.8	6.8	3627	4	US-09-323-873A-6	Sequence 6, Appli
348	185.8	6.8	5590	3	US-09-050-159-129	Sequence 129, App
c 349	185.8	6.8	10825	3	US-08-652-265-1	Sequence 1, Appli
c 350	185.8	6.8	10825	3	US-08-652-265-3	Sequence 3, Appli
c 351	185.8	6.8	10825	3	US-08-652-265-5	Sequence 5, Appli
c 352	185.8	6.8	10825	3	US-08-652-265-7	Sequence 7, Appli
c 353	185.8	6.8	10825	3	US-08-834-497A-1	Sequence 1, Appli
c 354	185.8	6.8	10825	3	US-08-834-497A-3	Sequence 3, Appli
c 355	185.8	6.8	10825	3	US-08-834-497A-5	Sequence 5, Appli
c 356	185.8	6.8	10825	3	US-08-834-497A-7	Sequence 7, Appli
c 357	185.8	6.8	10825	3	US-09-503-444A-1	Sequence 1, Appli
c 358	185.8	6.8	10825	3	US-09-503-444A-3	Sequence 3, Appli
c 359	185.8	6.8	10825	3	US-09-503-444A-5	Sequence 5, Appli
c 360	185.8	6.8	10825	3	US-09-503-444A-7	Sequence 7, Appli
361	185.8	6.8	32654	4	US-09-801-191A-3	Sequence 3, Appli
362	185.8	6.8	87350	3	US-08-781-891-79	Sequence 79, Appl
363	185.8	6.8	87350	4	US-09-618-166-79	Sequence 79, Appl
364	185.8	6.8	87543	4	US-09-791-211-3	Sequence 3, Appli
c 365	185.6	6.8	395	4	US-09-621-976-9164	Sequence 9164, Ap
366	185.6	6.8	619	3	US-09-385-982-358	Sequence 358, App
367	185.6	6.8	3198	4	US-09-601-478-3	Sequence 3, Appli
368	185.2	6.7	2907	4	US-09-023-655-1053	Sequence 1053, Ap
369	185.2	6.7	10380	3	US-09-077-354B-3	Sequence 3, Appli
370	185.2	6.7	36651	4	US-09-738-894A-3	Sequence 3, Appli
371	185.2	6.7	36651	4	US-09-964-469-3	Sequence 3, Appli
c 372	185.2	6.7	40000	4	US-09-780-049-18	Sequence 18, Appl
373	185.2	6.7	63588	4	US-09-873-404-3	Sequence 3, Appli
c 374	185.2	6.7	169998	4	US-09-676-610B-24	Sequence 24, Appl
c 375	185.2	6.7	197496	4	US-09-877-177A-10	Sequence 10, Appl
c 376	185	6.7	1334	2	US-08-481-658B-44	Sequence 44, Appl
c 377	185	6.7	1334	2	US-08-477-504A-44	Sequence 44, Appl
c 378	185	6.7	1334	2	US-08-486-756A-44	Sequence 44, Appl
c 379	185	6.7	1334	2	US-08-485-862B-44	Sequence 44, Appl
c 380	185	6.7	1334	3	US-08-787-739-44	Sequence 44, Appl
c 381	185	6.7	1334	3	US-08-487-077A-44	Sequence 44, Appl
c 382	185	6.7	1334	3	US-08-485-863A-44	Sequence 44, Appl
c 383	185	6.7	1334	3	US-08-485-049D-44	Sequence 44, Appl
c 384	185	6.7	1334	3	US-09-178-115-44	Sequence 44, Appl
c 385	185	6.7	1334	3	US-09-177-776-44	Sequence 44, Appl
c 386	185	6.7	10898	2	US-08-481-658B-5	Sequence 5, Appli
c 387	185	6.7	10898	2	US-08-477-504A-5	Sequence 5, Appli
c 388	185	6.7	10898	2	US-08-486-756A-5	Sequence 5, Appli
c 389	185	6.7	10898	2	US-08-485-862B-5	Sequence 5, Appli
c 390	185	6.7	10898	3	US-08-787-739-5	Sequence 5, Appli
c 391	185	6.7	10898	3	US-08-487-077A-5	Sequence 5, Appli
c 392	185	6.7	10898	3	US-08-485-863A-5	Sequence 5, Appli

c 393	185	6.7	10898	3	US-08-485-049D-5	Sequence 5, Appli
c 394	185	6.7	10898	3	US-09-178-115-5	Sequence 5, Appli
c 395	185	6.7	10898	3	US-09-177-776-5	Sequence 5, Appli
396	185	6.7	20303	1	US-08-370-975B-6	Sequence 6, Appli
397	185	6.7	26764	1	US-08-370-975B-1	Sequence 1, Appli
398	184.8	6.7	615	3	US-09-385-982-528	Sequence 528, App
399	184.8	6.7	3694	3	US-09-232-200-46	Sequence 46, Appl
400	184.8	6.7	3694	4	US-09-232-197-46	Sequence 46, Appl
401	184.8	6.7	3694	4	US-09-232-201-46	Sequence 46, Appl
402	184.8	6.7	3694	4	US-09-232-195-46	Sequence 46, Appl
403	184.8	6.7	3704	3	US-09-232-200-24	Sequence 24, Appl
404	184.8	6.7	3704	4	US-09-232-197-24	Sequence 24, Appl
405	184.8	6.7	3704	4	US-09-232-201-24	Sequence 24, Appl
406	184.8	6.7	3704	4	US-09-232-195-24	Sequence 24, Appl
c 407	184.8	6.7	5232	3	US-09-212-971-3	Sequence 3, Appli
c 408	184.8	6.7	5232	3	US-08-800-929A-3	Sequence 3, Appli
c 409	184.8	6.7	5232	4	US-09-617-053A-3	Sequence 3, Appli
410	184.8	6.7	45546	4	US-09-146-053-6	Sequence 6, Appli
c 411	184.6	6.7	357	4	US-09-621-976-9619	Sequence 9619, Ap
c 412	184.6	6.7	438	4	US-09-621-976-9286	Sequence 9286, Ap
c 413	184.6	6.7	498	4	US-09-621-976-14555	Sequence 14555, A
414	184.6	6.7	1860	4	US-09-489-847-53	Sequence 53, Appl
415	184.6	6.7	1988	2	US-08-257-963B-11	Sequence 11, Appl
416	184.6	6.7	1988	4	US-08-367-841A-11	Sequence 11, Appl
417	184.6	6.7	1988	5	PCT-US95-07201-11	Sequence 11, Appl
418	184.6	6.7	2839	3	US-09-061-702-1	Sequence 1, Appli
419	184.6	6.7	5262	4	US-08-520-373D-5	Sequence 5, Appli
c 420	184.6	6.7	18853	4	US-09-820-005-3	Sequence 3, Appli
421	184.6	6.7	38653	4	US-09-922-445-1	Sequence 1, Appli
c 422	184.6	6.7	118067	4	US-09-497-855A-32	Sequence 32, Appl
c 423	184.4	6.7	364	4	US-09-621-976-13012	Sequence 13012, A
c 424	184.4	6.7	490	4	US-09-621-976-9426	Sequence 9426, Ap
c 425	184.4	6.7	850	4	US-09-288-143-26	Sequence 26, Appl
426	184.4	6.7	9721	3	US-09-345-217-2	Sequence 2, Appli
c 427	184.2	6.7	441	4	US-09-621-976-13138	Sequence 13138, A
c 428	184.2	6.7	1000	4	US-09-671-317-471	Sequence 471, App
429	184.2	6.7	4421	2	US-08-257-963B-9	Sequence 9, Appli
430	184.2	6.7	4421	4	US-08-367-841A-9	Sequence 9, Appli
431	184.2	6.7	4421	4	US-08-520-373D-6	Sequence 6, Appli
432	184.2	6.7	4421	5	PCT-US95-07201-9	Sequence 9, Appli
c 433	184.2	6.7	49312	4	US-09-671-317-485	Sequence 485, App
434	184	6.7	4171	4	US-09-667-422-3	Sequence 3, Appli
435	184	6.7	4182	4	US-09-667-422-2	Sequence 2, Appli
c 436	184	6.7	40090	4	US-09-820-004-3	Sequence 3, Appli
437	183.8	6.7	1000	3	US-09-018-584A-33	Sequence 33, Appl
c 438	183.8	6.7	1278	2	US-08-909-965C-4	Sequence 4, Appli
c 439	183.8	6.7	2127	1	US-08-832-883-54	Sequence 54, Appl
c 440	183.8	6.7	2127	2	US-08-832-877-54	Sequence 54, Appl
c 441	183.8	6.7	2713	2	US-08-916-901-6	Sequence 6, Appli
c 442	183.8	6.7	2713	4	US-09-154-602-6	Sequence 6, Appli
c 443	183.8	6.7	6088	4	US-09-620-312D-190	Sequence 190, App
c 444	183.8	6.7	38653	4	US-09-922-445-1	Sequence 1, Appli
c 445	183.8	6.7	59065	4	US-09-813-817-3	Sequence 3, Appli
c 446	183.8	6.7	59065	4	US-09-978-197-3	Sequence 3, Appli
c 447	183.6	6.7	304	4	US-09-621-976-8439	Sequence 8439, Ap
448	183.6	6.7	1019	4	US-09-177-650-128	Sequence 128, App
449	183.6	6.7	4803	3	US-09-197-636-1	Sequence 1, Appli
450	183.6	6.7	4803	3	US-09-197-636-3	Sequence 3, Appli
c 451	183.4	6.7	4773	3	US-08-884-324-9	Sequence 9, Appli
c 452	183.4	6.7	11464	3	US-08-884-324-13	Sequence 13, Appl
c 453	183.4	6.7	28994	3	US-08-884-324-14	Sequence 14, Appl
c 454	183.2	6.7	412	4	US-09-621-976-9147	Sequence 9147, Ap
c 455	183.2	6.7	464	4	US-09-621-976-18352	Sequence 18352, A
456	183.2	6.7	1589	1	US-07-971-092-1	Sequence 1, Appli
457	183.2	6.7	1611	6	5198342-1	Patent No. 5198342
c 458	183.2	6.7	9573	4	US-09-220-132-168	Sequence 168, App
c 459	183	6.7	50000	4	US-09-146-053-4	Sequence 4, Appli
c 460	183	6.7	81001	4	US-09-750-580-1	Sequence 1, Appli
c 461	183	6.7	98844	4	US-09-791-211-10	Sequence 10, Appl
c 462	182.8	6.6	380	4	US-09-621-976-12667	Sequence 12667, A
463	182.8	6.6	598	4	US-09-641-638-60	Sequence 60, Appl
464	182.8	6.6	598	4	US-09-641-638-574	Sequence 574, App
465	182.8	6.6	2387	4	US-09-375-318-38	Sequence 38, Appl
c 466	182.8	6.6	2461	1	US-08-832-883-3	Sequence 3, Appli
c 467	182.8	6.6	2461	2	US-08-832-877-113	Sequence 113, App
c 468	182.8	6.6	3663	3	US-09-499-884-11	Sequence 11, Appl
c 469	182.6	6.6	317	4	US-09-621-976-12183	Sequence 12183, A
c 470	182.6	6.6	321	4	US-09-621-976-12009	Sequence 12009, A
c 471	182.6	6.6	328	4	US-09-621-976-7890	Sequence 7890, Ap
c 472	182.6	6.6	1175	4	US-09-489-847-105	Sequence 105, App
473	182.6	6.6	1912	4	US-09-800-729-32	Sequence 32, Appl
474	182.6	6.6	2532	4	US-09-799-345-1	Sequence 1, Appli
475	182.6	6.6	2532	4	US-09-962-276-1	Sequence 1, Appli
476	182.6	6.6	3867	3	US-09-347-114A-81	Sequence 81, Appl
c 477	182.6	6.6	8353	3	US-08-611-587-1	Sequence 1, Appli
478	182.6	6.6	12482	4	US-09-512-563C-25	Sequence 25, Appl
c 479	182.4	6.6	321	4	US-09-621-976-13503	Sequence 13503, A
c 480	182.4	6.6	328	4	US-09-621-976-7930	Sequence 7930, Ap
c 481	182.4	6.6	1320	4	US-09-370-838-22	Sequence 22, Appl
c 482	182.4	6.6	2191	4	US-09-482-273-79	Sequence 79, Appl
c 483	182.4	6.6	3679	4	US-09-907-794A-244	Sequence 244, App
c 484	182.4	6.6	3679	4	US-09-905-125A-244	Sequence 244, App
c 485	182.4	6.6	3679	4	US-09-902-775A-244	Sequence 244, App
486	182.4	6.6	16389	4	US-09-741-154-3	Sequence 3, Appli
487	182.4	6.6	59065	4	US-09-813-817-3	Sequence 3, Appli
488	182.4	6.6	59065	4	US-09-978-197-3	Sequence 3, Appli
c 489	182.4	6.6	80246	3	US-09-078-294-4	Sequence 4, Appli
c 490	182.2	6.6	316	4	US-09-621-976-11516	Sequence 11516, A
c 491	182.2	6.6	495	4	US-09-621-976-13168	Sequence 13168, A
c 492	182.2	6.6	896	3	US-08-943-731-31	Sequence 31, Appl
493	182.2	6.6	1901	3	US-09-338-907-181	Sequence 181, App
494	182.2	6.6	1901	4	US-09-218-207-181	Sequence 181, App
495	182.2	6.6	3470	4	US-09-486-147-2	Sequence 2, Appli
c 496	182.2	6.6	5543	2	US-08-687-080-101	Sequence 101, App
c 497	182.2	6.6	12597	4	US-09-705-299-12	Sequence 12, Appl
498	182.2	6.6	12619	4	US-09-616-289-49	Sequence 49, Appl
c 499	182.2	6.6	14747	4	US-09-608-285A-42	Sequence 42, Appl
c 500	182.2	6.6	14747	4	US-09-557-800C-42	Sequence 42, Appl
c 501	182.2	6.6	15977	4	US-09-608-285A-59	Sequence 59, Appl
c 502	182.2	6.6	16063	4	US-09-801-052-3	Sequence 3, Appli
c 503	182.2	6.6	16063	4	US-10-020-121-3	Sequence 3, Appli
c 504	182.2	6.6	18609	3	US-08-943-731-1	Sequence 1, Appli
c 505	182.2	6.6	38844	4	US-09-734-675-3	Sequence 3, Appli
506	182.2	6.6	56516	2	US-08-996-306-1	Sequence 1, Appli
507	182.2	6.6	56516	3	US-09-338-907-1	Sequence 1, Appli
508	182.2	6.6	56516	4	US-09-218-207-1	Sequence 1, Appli
509	182.2	6.6	56520	3	US-09-338-907-179	Sequence 179, App
510	182.2	6.6	56520	4	US-09-218-207-179	Sequence 179, App
511	182	6.6	317	4	US-09-621-976-9404	Sequence 9404, Ap
512	182	6.6	511	4	US-09-621-976-1354	Sequence 1354, Ap
c 513	182	6.6	2002	2	US-08-715-202A-3	Sequence 3, Appli
c 514	182	6.6	2002	4	US-09-328-775-3	Sequence 3, Appli
c 515	182	6.6	2002	4	US-09-994-177-3	Sequence 3, Appli
c 516	182	6.6	28001	4	US-09-819-993-3	Sequence 3, Appli
c 517	182	6.6	28001	4	US-10-193-295-3	Sequence 3, Appli
518	182	6.6	28720	4	US-09-341-587-7	Sequence 7, Appli
519	182	6.6	46718	4	US-09-816-093-3	Sequence 3, Appli
c 520	181.8	6.6	382	4	US-09-621-976-10062	Sequence 10062, A
c 521	181.8	6.6	398	4	US-09-621-976-10066	Sequence 10066, A
c 522	181.8	6.6	445	4	US-09-621-976-14297	Sequence 14297, A
523	181.8	6.6	4203	4	US-09-667-422-1	Sequence 1, Appli
524	181.8	6.6	9301	4	US-09-449-218D-18	Sequence 18, Appl
525	181.8	6.6	9301	4	US-09-668-529A-18	Sequence 18, Appl
526	181.8	6.6	9301	4	US-09-668-037A-18	Sequence 18, Appl
c 527	181.6	6.6	398	4	US-09-621-976-10198	Sequence 10198, A
528	181.6	6.6	529	4	US-09-621-976-2252	Sequence 2252, Ap
c 529	181.6	6.6	2867	4	US-09-402-532-38	Sequence 38, Appl
530	181.6	6.6	8133	4	US-09-659-791A-10	Sequence 10, Appl
c 531	181.6	6.6	10380	3	US-09-077-354B-3	Sequence 3, Appli
532	181.6	6.6	161652	4	US-09-497-855A-40	Sequence 40, Appl
c 533	181.4	6.6	379	4	US-09-621-976-10205	Sequence 10205, A
534	181.4	6.6	14796	3	US-08-975-080-35	Sequence 35, Appl
535	181.4	6.6	14796	3	US-09-630-706-10	Sequence 10, Appl
536	181.4	6.6	14796	4	US-09-496-694B-3	Sequence 3, Appli
c 537	181.4	6.6	16595	4	US-09-146-053-7	Sequence 7, Appli
c 538	181.2	6.6	380	4	US-09-621-976-12238	Sequence 12238, A

c 539	181.2	6.6	380	4	US-09-621-976-13325	Sequence 13325, A
540	181.2	6.6	461	4	US-09-404-879A-1	Sequence 1, Appli
541	181.2	6.6	461	4	US-09-404-879A-3	Sequence 3, Appli
542	181.2	6.6	461	4	US-09-338-933-1	Sequence 1, Appli
543	181.2	6.6	461	4	US-09-338-933-3	Sequence 3, Appli
544	181.2	6.6	461	4	US-09-215-681-1	Sequence 1, Appli
545	181.2	6.6	461	4	US-09-215-681-3	Sequence 3, Appli
546	181.2	6.6	461	4	US-09-216-003A-1	Sequence 1, Appli
547	181.2	6.6	461	4	US-09-216-003A-3	Sequence 3, Appli
548	181.2	6.6	2413	3	US-09-518-046-1	Sequence 1, Appli
549	181.2	6.6	2416	3	US-09-261-416-1	Sequence 1, Appli
550	181.2	6.6	2544	3	US-09-518-046-3	Sequence 3, Appli
c 551	181.2	6.6	32654	4	US-09-801-191A-3	Sequence 3, Appli
c 552	181.2	6.6	63000	4	US-09-780-172-18	Sequence 18, Appl
c 553	181.2	6.6	65042	4	US-09-784-316-3	Sequence 3, Appli
c 554	181	6.6	381	4	US-09-621-976-11214	Sequence 11214, A
555	181	6.6	2712	4	US-09-976-594-1010	Sequence 1010, Ap
556	181	6.6	4086	4	US-09-702-705-1801	Sequence 1801, Ap
557	181	6.6	4086	4	US-09-736-457-1801	Sequence 1801, Ap
558	181	6.6	4086	4	US-09-671-325-1801	Sequence 1801, Ap
559	181	6.6	35100	1	US-08-306-691B-19	Sequence 19, Appl
560	181	6.6	35100	5	PCT-US93-06251-19	Sequence 19, Appl
c 561	181	6.6	39982	4	US-09-820-924-3	Sequence 3, Appli
562	181	6.6	65042	4	US-09-784-316-3	Sequence 3, Appli
c 563	181	6.6	80595	3	US-09-078-294-3	Sequence 3, Appli
564	180.8	6.6	648	3	US-09-385-982-332	Sequence 332, App
565	180.8	6.6	11558	5	PCT-US93-06251-23	Sequence 23, Appl
566	180.8	6.6	41684	4	US-09-536-059-1	Sequence 1, Appli
567	180.6	6.6	14753	4	US-09-821-736-3	Sequence 3, Appli
c 568	180.6	6.6	20598	4	US-09-593-995-10	Sequence 10, Appl
c 569	180.4	6.6	379	4	US-09-621-976-10109	Sequence 10109, A
c 570	180.4	6.6	998	4	US-09-227-357-62	Sequence 62, Appl
571	180.4	6.6	3000	4	US-09-705-267A-18	Sequence 18, Appl
c 572	180.4	6.6	3158	2	US-08-464-517-36	Sequence 36, Appl
c 573	180.4	6.6	3158	2	US-08-246-361A-36	Sequence 36, Appl
c 574	180.4	6.6	3158	3	US-08-463-772-36	Sequence 36, Appl
575	180.4	6.6	3804	2	US-08-483-488-5	Sequence 5, Appli
576	180.4	6.6	14485	4	US-09-876-216-3	Sequence 3, Appli
577	180.4	6.6	35060	3	US-08-814-095-7	Sequence 7, Appli
c 578	180.4	6.6	53526	3	US-08-658-136-2	Sequence 2, Appli
c 579	180.4	6.6	53577	3	US-08-658-136-1	Sequence 1, Appli
580	180.4	6.6	55827	4	US-09-813-133A-3	Sequence 3, Appli
c 581	180.2	6.6	312	4	US-09-621-976-13697	Sequence 13697, A
c 582	180.2	6.6	1600	2	US-08-487-113D-117	Sequence 117, App
c 583	180.2	6.6	1600	2	US-08-720-420A-117	Sequence 117, App
c 584	180.2	6.6	4421	2	US-08-257-963B-9	Sequence 9, Appli
c 585	180.2	6.6	4421	4	US-08-367-841A-9	Sequence 9, Appli
c 586	180.2	6.6	4421	4	US-08-520-373D-6	Sequence 6, Appli
c 587	180.2	6.6	4421	5	PCT-US95-07201-9	Sequence 9, Appli
588	180.2	6.6	40090	4	US-09-820-004-3	Sequence 3, Appli
589	180	6.5	20284	4	US-09-526-193A-21	Sequence 21, Appl
c 590	179.8	6.5	2067	4	US-09-716-129-20	Sequence 20, Appl
c 591	179.8	6.5	6799	4	US-09-620-312D-299	Sequence 299, App
592	179.8	6.5	51719	4	US-09-918-686-2	Sequence 2, Appli
c 593	179.8	6.5	161652	4	US-09-497-855A-40	Sequence 40, Appl
594	179.6	6.5	438	4	US-09-621-976-12267	Sequence 12267, A
595	179.6	6.5	9573	4	US-09-220-132-168	Sequence 168, App
596	179.4	6.5	9377	4	US-09-801-874-3	Sequence 3, Appli
c 597	179.4	6.5	14636	3	US-09-173-914-6	Sequence 6, Appli
c 598	179.4	6.5	72928	3	US-09-009-913-1	Sequence 1, Appli
599	179.2	6.5	397	4	US-09-621-976-10970	Sequence 10970, A
600	179.2	6.5	461	4	US-09-621-976-13755	Sequence 13755, A
601	179.2	6.5	629	3	US-09-385-982-204	Sequence 204, App
c 602	179.2	6.5	2296	4	US-09-851-896-11	Sequence 11, Appl
603	179.2	6.5	3805	4	US-09-108-006C-3	Sequence 3, Appli
604	179	6.5	331	4	US-09-621-976-10828	Sequence 10828, A
605	179	6.5	367	4	US-09-621-976-9996	Sequence 9996, Ap
c 606	179	6.5	1242	2	US-08-909-965C-5	Sequence 5, Appli
c 607	179	6.5	3001	4	US-09-539-333D-168	Sequence 168, App
608	179	6.5	193303	4	US-09-497-855A-37	Sequence 37, Appl
609	179	6.5	193303	4	US-09-497-855A-44	Sequence 44, Appl
c 610	178.8	6.5	374	4	US-09-621-976-12442	Sequence 12442, A
611	178.8	6.5	3885	1	US-08-688-145-1	Sequence 1, Appli
612	178.8	6.5	7379	4	US-09-341-587-5	Sequence 5, Appli
613	178.6	6.5	487	4	US-09-621-976-1990	Sequence 1990, Ap
c 614	178.6	6.5	956	4	US-09-369-247-47	Sequence 47, Appl
c 615	178.6	6.5	2457	4	US-09-620-312D-223	Sequence 223, App
616	178.6	6.5	2861	2	US-08-770-301A-12	Sequence 12, Appl
617	178.6	6.5	2861	3	US-09-175-581-12	Sequence 12, Appl
618	178.6	6.5	4428	4	US-09-023-655-1109	Sequence 1109, Ap
c 619	178.6	6.5	7130	3	US-09-056-105-31	Sequence 31, Appl
620	178.6	6.5	26016	4	US-09-326-480A-1	Sequence 1, Appli
c 621	178.4	6.5	2480	4	US-09-534-638-3	Sequence 3, Appli
c 622	178.4	6.5	2813	4	US-09-689-255C-3	Sequence 3, Appli
623	178.4	6.5	14636	3	US-09-173-914-6	Sequence 6, Appli
624	178.4	6.5	18443	3	US-09-078-294-6	Sequence 6, Appli
625	178.4	6.5	319608	4	US-09-539-333D-1	Sequence 1, Appli
626	178.4	6.5	319608	4	US-09-679-409-1	Sequence 1, Appli
627	178.2	6.5	1371	4	US-09-023-655-986	Sequence 986, App
628	178.2	6.5	1624	2	US-08-852-807-10	Sequence 10, Appl
629	178.2	6.5	1811	1	US-08-848-252-1	Sequence 1, Appli
c 630	178.2	6.5	6709	3	US-09-285-601-3	Sequence 3, Appli
631	178.2	6.5	13674	2	US-08-852-807-1	Sequence 1, Appli
632	178.2	6.5	29485	4	US-09-785-381-6	Sequence 6, Appli
633	178	6.5	437	4	US-09-621-976-11381	Sequence 11381, A
c 634	178	6.5	458	4	US-09-621-976-12606	Sequence 12606, A
c 635	178	6.5	1749	4	US-09-149-476-54	Sequence 54, Appl
636	178	6.5	3373	1	US-08-273-411-2	Sequence 2, Appli
637	178	6.5	4811	4	US-09-569-852B-2	Sequence 2, Appli
638	178	6.5	8174	1	US-07-914-281-5	Sequence 5, Appli
639	178	6.5	8174	1	US-08-393-246-5	Sequence 5, Appli
640	178	6.5	8174	1	US-08-525-058A-5	Sequence 5, Appli
641	178	6.5	8174	2	US-08-696-731-5	Sequence 5, Appli
642	178	6.5	8174	3	US-09-042-531-5	Sequence 5, Appli
643	178	6.5	8174	5	PCT-US91-00899-3	Sequence 3, Appli
644	178	6.5	8220	4	US-09-797-908-3	Sequence 3, Appli
645	178	6.5	50000	4	US-09-146-053-4	Sequence 4, Appli
c 646	177.8	6.5	319	4	US-09-621-976-13108	Sequence 13108, A
c 647	177.8	6.5	2199	4	US-09-708-725A-3	Sequence 3, Appli
648	177.8	6.5	2562	2	US-08-436-771-8	Sequence 8, Appli
649	177.8	6.5	2562	2	US-08-434-998-8	Sequence 8, Appli
650	177.8	6.5	2562	2	US-08-487-797-8	Sequence 8, Appli
651	177.8	6.5	2562	5	PCT-US95-02058-8	Sequence 8, Appli
652	177.6	6.5	3035	1	US-08-726-725-2	Sequence 2, Appli
653	177.6	6.5	3701	4	US-09-220-132-57	Sequence 57, Appl
654	177.6	6.5	18400	4	US-09-901-151-3	Sequence 3, Appli
c 655	177.4	6.5	462	4	US-09-621-976-14372	Sequence 14372, A
656	177.4	6.5	2995	1	US-08-592-126-85	Sequence 85, Appl
657	177.4	6.5	2995	4	US-09-168-595-85	Sequence 85, Appl
658	177.4	6.5	6678	3	US-08-816-617A-1	Sequence 1, Appli
659	177.4	6.5	31208	4	US-09-852-067-3	Sequence 3, Appli
c 660	177.4	6.5	36159	4	US-09-749-588-3	Sequence 3, Appli
c 661	177.4	6.5	42571	4	US-09-810-347-3	Sequence 3, Appli
662	177.2	6.4	529	4	US-09-621-976-2819	Sequence 2819, Ap
c 663	177.2	6.4	1264	4	US-09-690-454-32	Sequence 32, Appl
664	177.2	6.4	2559	2	US-08-724-774B-3	Sequence 3, Appli
665	177.2	6.4	2559	3	US-09-089-595-3	Sequence 3, Appli
666	177.2	6.4	2559	3	US-09-382-855-3	Sequence 3, Appli
667	177.2	6.4	2559	3	US-09-183-714B-3	Sequence 3, Appli
668	177.2	6.4	2559	4	US-09-642-281-3	Sequence 3, Appli
669	177.2	6.4	2559	4	US-09-589-717-3	Sequence 3, Appli
c 670	177	6.4	1901	3	US-09-338-907-181	Sequence 181, App
c 671	177	6.4	1901	4	US-09-218-207-181	Sequence 181, App
672	177	6.4	5835	3	US-09-033-333-3	Sequence 3, Appli
673	177	6.4	5835	4	US-09-033-556-2	Sequence 2, Appli
674	177	6.4	5835	4	US-09-614-495-3	Sequence 3, Appli
675	177	6.4	5835	4	US-09-151-376-2	Sequence 2, Appli
676	177	6.4	5836	1	US-08-380-916-1	Sequence 1, Appli
677	177	6.4	5836	3	US-08-721-690-1	Sequence 1, Appli
678	177	6.4	5836	3	US-08-891-581-1	Sequence 1, Appli
679	177	6.4	5836	3	US-09-033-333-2	Sequence 2, Appli
680	177	6.4	5836	4	US-09-033-556-1	Sequence 1, Appli
681	177	6.4	5836	4	US-09-614-495-2	Sequence 2, Appli
682	177	6.4	5836	4	US-09-474-699-9	Sequence 9, Appli
683	177	6.4	5836	4	US-09-151-376-1	Sequence 1, Appli
c 684	177	6.4	9704	4	US-09-814-951A-3	Sequence 3, Appli

c 685	177	6.4	56516	2	US-08-996-306-1	Sequence 1, Appli
c 686	177	6.4	56516	3	US-09-338-907-1	Sequence 1, Appli
c 687	177	6.4	56516	4	US-09-218-207-1	Sequence 1, Appli
c 688	177	6.4	56520	3	US-09-338-907-179	Sequence 179, App
c 689	177	6.4	56520	4	US-09-218-207-179	Sequence 179, App
c 690	176.8	6.4	309	4	US-09-621-976-7944	Sequence 7944, Ap
c 691	176.8	6.4	464	4	US-09-621-976-9418	Sequence 9418, Ap
c 692	176.8	6.4	2555	2	US-08-960-022-15	Sequence 15, Appl
c 693	176.8	6.4	2598	4	US-09-026-033-18	Sequence 18, Appl
c 694	176.8	6.4	3001	4	US-09-539-333D-222	Sequence 222, App
695	176.8	6.4	3233	3	US-08-755-587-43	Sequence 43, Appl
c 696	176.8	6.4	24707	4	US-09-740-027-3	Sequence 3, Appli
c 697	176.8	6.4	99916	4	US-09-816-095-3	Sequence 3, Appli
c 698	176.6	6.4	315	4	US-09-621-976-8527	Sequence 8527, Ap
c 699	176.6	6.4	316	4	US-09-621-976-7949	Sequence 7949, Ap
c 700	176.6	6.4	1001	4	US-09-641-638-406	Sequence 406, App
701	176.6	6.4	1323	4	US-08-983-502-15	Sequence 15, Appl
702	176.6	6.4	1323	4	US-09-516-747-15	Sequence 15, Appl
703	176.6	6.4	1323	5	PCT-US96-10521-15	Sequence 15, Appl
704	176.6	6.4	2619	4	US-08-983-502-17	Sequence 17, Appl
705	176.6	6.4	2619	4	US-09-516-747-17	Sequence 17, Appl
706	176.6	6.4	2619	5	PCT-US96-10521-17	Sequence 17, Appl
707	176.6	6.4	2887	4	US-08-983-502-14	Sequence 14, Appl
708	176.6	6.4	2887	4	US-09-516-747-14	Sequence 14, Appl
709	176.6	6.4	2887	5	PCT-US96-10521-14	Sequence 14, Appl
710	176.6	6.4	28001	4	US-09-819-993-3	Sequence 3, Appli
711	176.6	6.4	28001	4	US-10-193-295-3	Sequence 3, Appli
c 712	176.6	6.4	28720	4	US-09-341-587-7	Sequence 7, Appli
c 713	176.4	6.4	304	4	US-09-621-976-13308	Sequence 13308, A
c 714	176.4	6.4	472	4	US-09-621-976-16698	Sequence 16698, A
c 715	176.4	6.4	3441	4	US-09-026-033-17	Sequence 17, Appl
716	176.4	6.4	7720	3	US-09-318-448-5	Sequence 5, Appli
c 717	176.4	6.4	17041	1	US-08-076-011-1	Sequence 1, Appli
718	176.4	6.4	21721	4	US-09-269-939A-41	Sequence 41, Appl
719	176.4	6.4	22976	4	US-09-269-939A-19	Sequence 19, Appl
720	176.4	6.4	23187	4	US-09-499-522-1	Sequence 1, Appli
c 721	176.2	6.4	350	4	US-09-621-976-11404	Sequence 11404, A
c 722	176.2	6.4	488	4	US-09-621-976-14108	Sequence 14108, A
c 723	176.2	6.4	866	4	US-09-257-179-11	Sequence 11, Appl
c 724	176.2	6.4	1001	4	US-09-671-317-170	Sequence 170, App
725	176.2	6.4	4853	3	US-08-881-450A-22	Sequence 22, Appl
c 726	176	6.4	1867	3	US-08-943-731-111	Sequence 111, App
727	176	6.4	1946	4	US-09-620-312D-462	Sequence 462, App
c 728	176	6.4	11811	3	US-09-078-294-7	Sequence 7, Appli
c 729	176	6.4	24183	3	US-08-943-731-3	Sequence 3, Appli
c 730	175.8	6.4	313	4	US-09-621-976-7927	Sequence 7927, Ap
c 731	175.8	6.4	313	4	US-09-621-976-7929	Sequence 7929, Ap
c 732	175.8	6.4	358	4	US-09-621-976-13414	Sequence 13414, A
c 733	175.8	6.4	454	4	US-09-621-976-15258	Sequence 15258, A
c 734	175.8	6.4	532	4	US-09-621-976-3687	Sequence 3687, Ap
c 735	175.8	6.4	1001	4	US-09-671-317-185	Sequence 185, App
c 736	175.8	6.4	1001	4	US-09-671-317-455	Sequence 455, App
c 737	175.8	6.4	2561	4	US-09-270-542-101	Sequence 101, App
c 738	175.8	6.4	2561	4	US-09-270-542-119	Sequence 119, App
739	175.8	6.4	3507	1	US-08-832-883-67	Sequence 67, Appl
740	175.8	6.4	3507	2	US-08-832-877-67	Sequence 67, Appl
c 741	175.8	6.4	14759	4	US-09-661-887-1	Sequence 1, Appli
742	175.6	6.4	1220	4	US-09-227-357-54	Sequence 54, Appl
c 743	175.6	6.4	1260	3	US-08-943-731-169	Sequence 169, App
c 744	175.6	6.4	2505	4	US-09-907-794A-176	Sequence 176, App
c 745	175.6	6.4	2505	4	US-09-905-125A-176	Sequence 176, App
c 746	175.6	6.4	2505	4	US-09-902-775A-176	Sequence 176, App
747	175.6	6.4	2741	1	US-08-832-883-59	Sequence 59, Appl
748	175.6	6.4	2741	2	US-08-832-877-59	Sequence 59, Appl
c 749	175.6	6.4	4444	4	US-09-879-833-3	Sequence 3, Appli
750	175.6	6.4	8981	4	US-09-526-193A-20	Sequence 20, Appl
c 751	175.4	6.4	593	4	US-09-621-976-10389	Sequence 10389, A
c 752	175.4	6.4	609	3	US-09-385-982-237	Sequence 237, App
753	175.4	6.4	1024	4	US-09-328-475C-51	Sequence 51, Appl
c 754	175.4	6.4	1294	4	US-09-904-615-26	Sequence 26, Appl
c 755	175.4	6.4	13158	2	US-08-687-080-105	Sequence 105, App
756	175.4	6.4	18596	3	US-09-318-448-11	Sequence 11, Appl
757	175.4	6.4	18597	4	US-09-962-665-8	Sequence 8, Appli
758	175.4	6.4	18597	4	US-09-963-333-8	Sequence 8, Appli
759	175.4	6.4	19806	4	US-09-740-028A-3	Sequence 3, Appli
760	175.4	6.4	43069	4	US-09-292-542A-1	Sequence 1, Appli
c 761	175.2	6.4	434	4	US-09-621-976-10150	Sequence 10150, A
762	175.2	6.4	2002	2	US-08-747-121-1	Sequence 1, Appli
763	175.2	6.4	20674	4	US-09-641-638-651	Sequence 651, App
c 764	175	6.4	376	4	US-09-621-976-12614	Sequence 12614, A
c 765	175	6.4	1001	4	US-09-671-317-159	Sequence 159, App
c 766	175	6.4	1287	4	US-09-564-805-217	Sequence 217, App
767	175	6.4	2649	2	US-08-718-964-1	Sequence 1, Appli
768	175	6.4	2649	2	US-09-059-964A-1	Sequence 1, Appli
769	175	6.4	2649	2	US-08-842-341-1	Sequence 1, Appli
770	175	6.4	3129	4	US-10-045-428A-9	Sequence 9, Appli
c 771	175	6.4	5984	4	US-09-705-872-2	Sequence 2, Appli
c 772	175	6.4	40352	3	US-08-846-111D-15	Sequence 15, Appl
c 773	175	6.4	40352	4	US-09-443-077-15	Sequence 15, Appl
774	175	6.4	176373	3	US-09-128-155-17	Sequence 17, Appl
c 775	174.8	6.4	678	4	US-09-205-258-187	Sequence 187, App
c 776	174.8	6.4	3001	4	US-09-539-333D-223	Sequence 223, App
c 777	174.8	6.4	3001	4	US-09-539-333D-224	Sequence 224, App
778	174.8	6.4	3267	2	US-08-257-963B-12	Sequence 12, Appl
779	174.8	6.4	3267	4	US-08-367-841A-12	Sequence 12, Appl
780	174.8	6.4	3267	5	PCT-US95-07201-12	Sequence 12, Appl
781	174.8	6.4	6709	3	US-09-285-601-3	Sequence 3, Appli
c 782	174.8	6.4	10684	3	US-08-618-100B-3	Sequence 3, Appli
783	174.6	6.4	394	4	US-09-621-976-11726	Sequence 11726, A
784	174.6	6.4	420	4	US-09-621-976-12142	Sequence 12142, A
c 785	174.6	6.4	713	4	US-08-943-607-26	Sequence 26, Appl
786	174.6	6.4	1442	2	US-08-454-557C-120	Sequence 120, App
787	174.6	6.4	1442	2	US-08-340-426D-120	Sequence 120, App
788	174.6	6.4	1442	2	US-08-450-673C-120	Sequence 120, App
c 789	174.6	6.4	6470	4	US-09-620-312D-255	Sequence 255, App
c 790	174.6	6.4	74962	4	US-09-685-853A-3	Sequence 3, Appli
c 791	174.4	6.3	294	4	US-09-621-976-12041	Sequence 12041, A
c 792	174.4	6.3	314	4	US-09-621-976-11579	Sequence 11579, A
c 793	174.4	6.3	314	4	US-09-621-976-11852	Sequence 11852, A
c 794	174.4	6.3	314	4	US-09-621-976-11976	Sequence 11976, A
c 795	174.4	6.3	314	4	US-09-621-976-12248	Sequence 12248, A
c 796	174.4	6.3	314	4	US-09-621-976-12329	Sequence 12329, A
c 797	174.4	6.3	314	4	US-09-621-976-12428	Sequence 12428, A
c 798	174.4	6.3	315	4	US-09-621-976-12033	Sequence 12033, A
c 799	174.4	6.3	316	4	US-09-621-976-11973	Sequence 11973, A
c 800	174.4	6.3	349	4	US-09-621-976-15054	Sequence 15054, A
801	174.4	6.3	464	4	US-09-621-976-1690	Sequence 1690, Ap
802	174.4	6.3	12565	3	US-09-345-217-3	Sequence 3, Appli
803	174.2	6.3	531	4	US-09-404-879A-24	Sequence 24, Appl
804	174.2	6.3	531	4	US-09-338-933-24	Sequence 24, Appl
805	174.2	6.3	531	4	US-09-215-681-24	Sequence 24, Appl
806	174.2	6.3	531	4	US-09-216-003A-24	Sequence 24, Appl
807	174.2	6.3	955	4	US-09-620-312D-228	Sequence 228, App
c 808	174.2	6.3	3460	4	US-09-904-615-44	Sequence 44, Appl
c 809	174	6.3	365	4	US-09-621-976-14699	Sequence 14699, A
810	174	6.3	471	4	US-09-621-976-3307	Sequence 3307, Ap
c 811	174	6.3	1386	2	US-08-687-080-76	Sequence 76, Appl
c 812	174	6.3	2721	3	US-08-921-195-1	Sequence 1, Appli
c 813	174	6.3	8220	4	US-09-797-908-3	Sequence 3, Appli
814	174	6.3	15418	4	US-09-783-203-1	Sequence 1, Appli
c 815	174	6.3	111282	4	US-09-754-250-3	Sequence 3, Appli
c 816	173.8	6.3	489	4	US-09-621-976-17265	Sequence 17265, A
c 817	173.8	6.3	490	4	US-09-621-976-2063	Sequence 2063, Ap
c 818	173.8	6.3	498	4	US-09-621-976-14540	Sequence 14540, A
819	173.8	6.3	2280	4	US-09-702-705-321	Sequence 321, App
820	173.8	6.3	2280	4	US-09-736-457-321	Sequence 321, App
821	173.8	6.3	2280	4	US-09-614-124B-321	Sequence 321, App
822	173.8	6.3	2280	4	US-09-671-325-321	Sequence 321, App
823	173.8	6.3	2280	4	US-09-589-184-321	Sequence 321, App
c 824	173.8	6.3	4169	4	US-09-166-350-32	Sequence 32, Appl
c 825	173.6	6.3	289	2	US-08-481-658B-63	Sequence 63, Appl
c 826	173.6	6.3	289	2	US-08-477-504A-63	Sequence 63, Appl
c 827	173.6	6.3	289	2	US-08-486-756A-63	Sequence 63, Appl
c 828	173.6	6.3	289	2	US-08-485-862B-63	Sequence 63, Appl
c 829	173.6	6.3	289	3	US-08-787-739-63	Sequence 63, Appl
c 830	173.6	6.3	289	3	US-08-487-077A-63	Sequence 63, Appl

c 831	173.6	6.3	289	3	US-08-485-863A-63	Sequence 63, Appl
c 832	173.6	6.3	289	3	US-08-485-049D-63	Sequence 63, Appl
c 833	173.6	6.3	289	3	US-09-178-115-63	Sequence 63, Appl
c 834	173.6	6.3	289	3	US-09-177-776-63	Sequence 63, Appl
c 835	173.6	6.3	357	4	US-09-621-976-1675	Sequence 1675, Ap
c 836	173.6	6.3	404	4	US-09-621-976-18360	Sequence 18360, A
837	173.6	6.3	1351	4	US-09-205-258-104	Sequence 104, App
838	173.6	6.3	9844	3	US-08-462-437-30	Sequence 30, Appl
c 839	173.6	6.3	12847	1	US-08-550-715-1	Sequence 1, Appli
840	173.6	6.3	15788	4	US-09-920-759-13	Sequence 13, Appl
c 841	173.4	6.3	302	2	US-08-849-701-3	Sequence 3, Appli
842	173.4	6.3	345	3	US-09-385-982-164	Sequence 164, App
c 843	173.4	6.3	375	4	US-09-621-976-11399	Sequence 11399, A
c 844	173.4	6.3	547	4	US-09-621-976-16182	Sequence 16182, A
845	173.4	6.3	951	4	US-09-636-215-570	Sequence 570, App
846	173.4	6.3	951	4	US-09-685-166A-570	Sequence 570, App
847	173.4	6.3	1301	4	US-08-983-502-19	Sequence 19, Appl
848	173.4	6.3	1301	4	US-09-516-747-19	Sequence 19, Appl
849	173.4	6.3	1301	5	PCT-US96-10521-19	Sequence 19, Appl
850	173.4	6.3	1443	4	US-08-983-502-33	Sequence 33, Appl
851	173.4	6.3	1443	4	US-09-516-747-33	Sequence 33, Appl
852	173.4	6.3	1443	5	PCT-US96-10521-33	Sequence 33, Appl
853	173.4	6.3	2172	4	US-09-685-166A-880	Sequence 880, App
c 854	173.4	6.3	3001	4	US-09-539-333D-155	Sequence 155, App
c 855	173.4	6.3	8779	2	US-08-750-703-4	Sequence 4, Appli
856	173.4	6.3	13158	2	US-08-687-080-105	Sequence 105, App
c 857	173.4	6.3	51719	4	US-09-918-686-2	Sequence 2, Appli
c 858	173.2	6.3	316	4	US-09-621-976-11932	Sequence 11932, A
c 859	173.2	6.3	1001	4	US-09-671-317-450	Sequence 450, App
860	173.2	6.3	4741	1	US-07-695-472B-4	Sequence 4, Appli
861	173.2	6.3	4741	4	US-09-106-375-4	Sequence 4, Appli
862	173.2	6.3	4742	1	US-08-250-740-35	Sequence 35, Appl
863	173.2	6.3	4768	4	US-09-526-193A-16	Sequence 16, Appl
c 864	173.2	6.3	7720	3	US-09-318-448-5	Sequence 5, Appli
865	173.2	6.3	9734	3	US-09-347-114A-80	Sequence 80, Appl
866	173.2	6.3	19011	1	US-08-310-356-36	Sequence 36, Appl
867	173.2	6.3	19557	5	PCT-US92-06300-1	Sequence 1, Appli
c 868	173.2	6.3	32042	4	US-09-245-281-44	Sequence 44, Appl
c 869	173.2	6.3	32042	4	US-09-340-620A-63	Sequence 63, Appl
c 870	173	6.3	301	4	US-09-621-976-14415	Sequence 14415, A
c 871	173	6.3	356	4	US-09-621-976-9729	Sequence 9729, Ap
c 872	173	6.3	449	4	US-09-621-976-16908	Sequence 16908, A
c 873	173	6.3	713	4	US-08-943-607-23	Sequence 23, Appl
c 874	173	6.3	713	4	US-08-943-607-24	Sequence 24, Appl
c 875	173	6.3	1804	1	US-08-306-691B-40	Sequence 40, Appl
c 876	173	6.3	1804	4	US-09-167-322-14	Sequence 14, Appl
c 877	173	6.3	1804	5	PCT-US93-06251-82	Sequence 82, Appl
878	173	6.3	49136	3	US-09-422-869-1	Sequence 1, Appli
c 879	172.8	6.3	314	4	US-09-621-976-12004	Sequence 12004, A
c 880	172.8	6.3	317	4	US-09-621-976-11907	Sequence 11907, A
881	172.8	6.3	930	4	US-09-227-357-146	Sequence 146, App
c 882	172.6	6.3	306	4	US-09-621-976-11914	Sequence 11914, A
c 883	172.6	6.3	317	4	US-09-621-976-12081	Sequence 12081, A
c 884	172.6	6.3	338	4	US-09-621-976-12808	Sequence 12808, A
c 885	172.6	6.3	2070	4	US-09-620-312D-958	Sequence 958, App
c 886	172.6	6.3	2676	1	US-08-471-570-7	Sequence 7, Appli
887	172.6	6.3	3804	4	US-08-999-689A-1	Sequence 1, Appli
888	172.6	6.3	3993	4	US-09-167-109-5	Sequence 5, Appli
889	172.6	6.3	4576	1	US-08-832-883-49	Sequence 49, Appl
890	172.6	6.3	4576	2	US-08-832-877-49	Sequence 49, Appl
891	172.6	6.3	11811	3	US-09-078-294-7	Sequence 7, Appli
c 892	172.6	6.3	26016	4	US-09-326-480A-1	Sequence 1, Appli
c 893	172.4	6.3	387	4	US-09-621-976-12733	Sequence 12733, A
c 894	172.4	6.3	930	4	US-09-227-357-61	Sequence 61, Appl
895	172.4	6.3	2455	3	US-08-406-030A-4	Sequence 4, Appli
896	172.4	6.3	12394	4	US-09-488-856A-10	Sequence 10, Appl
897	172.4	6.3	18000	4	US-09-657-346A-17	Sequence 17, Appl
898	172.2	6.3	8835	3	US-08-884-324-10	Sequence 10, Appl
899	172.2	6.3	15602	4	US-09-844-634-17	Sequence 17, Appl
900	172.2	6.3	28994	3	US-08-884-324-14	Sequence 14, Appl
c 901	172	6.3	440	4	US-09-621-976-15135	Sequence 15135, A
902	172	6.3	460	4	US-09-918-686-26	Sequence 26, Appl
903	172	6.3	3844	4	US-09-689-423-1	Sequence 1, Appli
c 904	172	6.3	8392	1	US-08-080-255-6	Sequence 6, Appli
c 905	172	6.3	8392	3	US-08-465-713-6	Sequence 6, Appli
c 906	172	6.3	8392	5	PCT-US93-05857-6	Sequence 6, Appli
c 907	172	6.3	26000	4	US-09-843-376-10	Sequence 10, Appl
908	172	6.3	169998	4	US-09-676-610B-24	Sequence 24, Appl
909	172	6.3	197496	4	US-09-877-177A-10	Sequence 10, Appl
c 910	171.8	6.2	1232	4	US-09-345-293-1	Sequence 1, Appli
c 911	171.8	6.2	2559	2	US-08-886-152-4	Sequence 4, Appli
c 912	171.8	6.2	2559	4	US-09-196-222-4	Sequence 4, Appli
c 913	171.8	6.2	7705	2	US-08-687-080-115	Sequence 115, App
c 914	171.8	6.2	15418	4	US-09-783-203-1	Sequence 1, Appli
915	171.8	6.2	148567	4	US-09-801-876B-3	Sequence 3, Appli
916	171.8	6.2	148567	4	US-10-254-869-3	Sequence 3, Appli
c 917	171.6	6.2	289	4	US-09-621-976-12326	Sequence 12326, A
c 918	171.6	6.2	307	4	US-09-621-976-11929	Sequence 11929, A
c 919	171.6	6.2	318	4	US-09-621-976-12355	Sequence 12355, A
c 920	171.6	6.2	402	4	US-09-621-976-13833	Sequence 13833, A
921	171.6	6.2	530	4	US-09-621-976-12823	Sequence 12823, A
922	171.6	6.2	2236	3	US-08-829-525-23	Sequence 23, Appl
923	171.6	6.2	2236	3	US-08-609-583A-23	Sequence 23, Appl
924	171.6	6.2	2236	3	US-08-937-399-23	Sequence 23, Appl
925	171.6	6.2	2236	4	US-09-310-367-23	Sequence 23, Appl
926	171.6	6.2	2236	4	US-09-032-337-23	Sequence 23, Appl
927	171.6	6.2	2236	4	US-09-464-231-23	Sequence 23, Appl
c 928	171.6	6.2	2334	4	US-09-493-565-1	Sequence 1, Appli
929	171.6	6.2	17327	1	US-07-906-871-15	Sequence 15, Appl
c 930	171.4	6.2	362	4	US-09-621-976-15415	Sequence 15415, A
c 931	171.4	6.2	409	4	US-09-621-976-10551	Sequence 10551, A
c 932	171.4	6.2	433	4	US-09-621-976-15363	Sequence 15363, A
c 933	171.4	6.2	713	4	US-08-943-607-25	Sequence 25, Appl
934	171.4	6.2	1300	2	US-08-474-020A-13	Sequence 13, Appl
c 935	171.4	6.2	1926	3	US-09-117-250-4	Sequence 4, Appli
c 936	171.2	6.2	263	4	US-09-621-976-12632	Sequence 12632, A
c 937	171.2	6.2	263	4	US-09-621-976-12804	Sequence 12804, A
c 938	171.2	6.2	263	4	US-09-621-976-13148	Sequence 13148, A
c 939	171.2	6.2	412	4	US-09-621-976-15301	Sequence 15301, A
940	171.2	6.2	448	4	US-09-621-976-9219	Sequence 9219, Ap
c 941	171.2	6.2	456	4	US-09-621-976-1688	Sequence 1688, Ap
c 942	171.2	6.2	577	4	US-09-621-976-11500	Sequence 11500, A
c 943	171.2	6.2	655	3	US-09-385-982-301	Sequence 301, App
c 944	171.2	6.2	3535	2	US-08-618-408B-1	Sequence 1, Appli
c 945	171	6.2	372	4	US-09-621-976-12089	Sequence 12089, A
c 946	171	6.2	450	4	US-09-621-976-15324	Sequence 15324, A
c 947	171	6.2	1160	4	US-09-016-434-1325	Sequence 1325, Ap
c 948	171	6.2	1160	4	US-09-023-655-1321	Sequence 1321, Ap
949	171	6.2	4793	4	US-09-561-497-10	Sequence 10, Appl
950	171	6.2	6990	4	US-09-620-312D-155	Sequence 155, App
951	170.8	6.2	1764	4	US-09-620-312D-548	Sequence 548, App
c 952	170.8	6.2	2328	4	US-09-016-434-1188	Sequence 1188, Ap
c 953	170.8	6.2	2328	4	US-09-023-655-1018	Sequence 1018, Ap
954	170.8	6.2	11298	1	US-07-869-933-31	Sequence 31, Appl
955	170.8	6.2	11298	1	US-08-201-879A-2	Sequence 2, Appli
956	170.8	6.2	11298	3	US-09-103-663-31	Sequence 31, Appl
c 957	170.6	6.2	295	4	US-09-621-976-14432	Sequence 14432, A
c 958	170.6	6.2	317	4	US-09-621-976-11513	Sequence 11513, A
c 959	170.6	6.2	335	4	US-09-621-976-12794	Sequence 12794, A
c 960	170.6	6.2	393	4	US-09-621-976-16149	Sequence 16149, A
c 961	170.6	6.2	443	4	US-09-621-976-14389	Sequence 14389, A
962	170.6	6.2	889	1	US-08-832-883-52	Sequence 52, Appl
963	170.6	6.2	889	2	US-08-832-877-52	Sequence 52, Appl
c 964	170.6	6.2	2886	2	US-08-687-080-55	Sequence 55, Appl
c 965	170.4	6.2	373	4	US-09-621-976-12147	Sequence 12147, A
966	170.4	6.2	1167	4	US-09-663-600A-141	Sequence 141, App
967	170.4	6.2	1370	4	US-09-663-600A-47	Sequence 47, Appl
c 968	170.4	6.2	1460	4	US-09-257-179-23	Sequence 23, Appl
969	170.4	6.2	9862	4	US-09-691-861A-3	Sequence 3, Appli
c 970	170.2	6.2	454	4	US-09-621-976-18052	Sequence 18052, A
c 971	170.2	6.2	2125	3	US-09-305-639-6	Sequence 6, Appli
972	170.2	6.2	2923	1	US-08-480-449-1	Sequence 1, Appli
973	170.2	6.2	2923	2	US-08-660-542-1	Sequence 1, Appli
974	170.2	6.2	2923	4	US-08-479-603-1	Sequence 1, Appli
975	170.2	6.2	2923	4	US-08-939-107-1	Sequence 1, Appli
976	170.2	6.2	2923	4	US-08-931-764-1	Sequence 1, Appli

977	170.2	6.2	2923	4	US-09-591-992-1	Sequence 1, Appli
978	170.2	6.2	2927	3	US-09-232-878-5	Sequence 5, Appli
c 979	170.2	6.2	3941	4	US-09-889-914B-1	Sequence 1, Appli
980	170.2	6.2	5023	4	US-09-526-193A-28	Sequence 28, Appl
c 981	170.2	6.2	6038	3	US-09-305-639-4	Sequence 4, Appli
c 982	170.2	6.2	6038	4	US-09-525-160B-2	Sequence 2, Appli
c 983	170.2	6.2	7622	3	US-09-305-639-1	Sequence 1, Appli
c 984	170.2	6.2	7622	4	US-09-525-160B-1	Sequence 1, Appli
c 985	170.2	6.2	7680	4	US-09-210-748A-3	Sequence 3, Appli
c 986	170	6.2	317	4	US-09-621-976-11530	Sequence 11530, A
c 987	170	6.2	538	4	US-09-621-976-14167	Sequence 14167, A
c 988	170	6.2	1001	4	US-09-671-317-184	Sequence 184, App
989	170	6.2	2415	3	US-09-019-689-1	Sequence 1, Appli
c 990	170	6.2	8224	2	US-09-010-398-14	Sequence 14, Appl
c 991	170	6.2	8224	3	US-09-366-260-14	Sequence 14, Appl
c 992	169.8	6.2	351	4	US-09-621-976-9805	Sequence 9805, Ap
c 993	169.8	6.2	853	4	US-09-621-976-17176	Sequence 17176, A
c 994	169.8	6.2	4428	4	US-09-023-655-1109	Sequence 1109, Ap
995	169.8	6.2	38844	4	US-09-734-675-3	Sequence 3, Appli
c 996	169.6	6.2	302	4	US-09-621-976-12269	Sequence 12269, A
c 997	169.6	6.2	307	4	US-09-621-976-12159	Sequence 12159, A
c 998	169.6	6.2	373	4	US-09-621-976-14426	Sequence 14426, A
c 999	169.6	6.2	409	4	US-09-621-976-7840	Sequence 7840, Ap
c1000	169.6	6.2	688	6	5498694-3	Patent No. 5498694
c1001	169.6	6.2	956	4	US-09-641-638-56	Sequence 56, Appl
1002	169.6	6.2	1001	4	US-09-641-638-78	Sequence 78, Appl
1003	169.6	6.2	1821	4	US-09-205-258-43	Sequence 43, Appl
1004	169.6	6.2	3001	4	US-09-539-333D-151	Sequence 151, App
1005	169.6	6.2	12597	4	US-09-705-299-12	Sequence 12, Appl
c1006	169.6	6.2	168575	4	US-09-426-290-1	Sequence 1, Appli
c1007	169.4	6.2	242	4	US-09-621-976-7827	Sequence 7827, Ap
c1008	169.4	6.2	372	4	US-09-621-976-12192	Sequence 12192, A
c1009	169.4	6.2	372	4	US-09-621-976-12283	Sequence 12283, A
c1010	169.4	6.2	488	4	US-09-621-976-12643	Sequence 12643, A
c1011	169.4	6.2	509	4	US-09-621-976-12954	Sequence 12954, A
1012	169.4	6.2	1001	4	US-09-641-638-629	Sequence 629, App
1013	169.4	6.2	5035	2	US-08-616-392C-3	Sequence 3, Appli
1014	169.4	6.2	13865	3	US-09-009-217-11	Sequence 11, Appl
1015	169.4	6.2	13865	3	US-09-009-656-11	Sequence 11, Appl
c1016	169.4	6.2	26664	4	US-09-564-805-28	Sequence 28, Appl
c1017	169.2	6.2	302	4	US-09-621-976-11752	Sequence 11752, A
c1018	169.2	6.2	303	4	US-09-621-976-11529	Sequence 11529, A
c1019	169.2	6.2	304	4	US-09-621-976-12186	Sequence 12186, A
c1020	169.2	6.2	304	4	US-09-621-976-12188	Sequence 12188, A
c1021	169.2	6.2	306	4	US-09-621-976-11538	Sequence 11538, A
c1022	169.2	6.2	418	4	US-09-621-976-8984	Sequence 8984, Ap
c1023	169.2	6.2	479	4	US-09-621-976-12796	Sequence 12796, A
1024	169.2	6.2	6719	4	US-09-740-235-36	Sequence 36, Appl
c1025	169.2	6.2	15328	2	US-08-888-497-33	Sequence 33, Appl
c1026	169.2	6.2	15328	4	US-09-362-230-33	Sequence 33, Appl
c1027	169.2	6.2	15328	5	PCT-US94-07926-33	Sequence 33, Appl
c1028	169	6.1	370	4	US-09-621-976-13486	Sequence 13486, A
c1029	169	6.1	371	4	US-09-621-976-11983	Sequence 11983, A
c1030	169	6.1	371	4	US-09-621-976-12170	Sequence 12170, A
c1031	169	6.1	371	4	US-09-621-976-12176	Sequence 12176, A
c1032	169	6.1	371	4	US-09-621-976-12366	Sequence 12366, A
c1033	169	6.1	555	4	US-09-621-976-18218	Sequence 18218, A
1034	169	6.1	2288	4	US-09-023-655-1151	Sequence 1151, Ap
c1035	169	6.1	3011	1	US-07-821-716-1	Sequence 1, Appli
c1036	169	6.1	3011	4	US-08-406-824A-5	Sequence 5, Appli
1037	169	6.1	3748	2	US-08-958-240-1	Sequence 1, Appli
c1038	169	6.1	4079	4	US-09-016-434-1219	Sequence 1219, Ap
c1039	169	6.1	4910	4	US-09-023-655-1125	Sequence 1125, Ap
c1040	169	6.1	15071	4	US-09-358-082A-29	Sequence 29, Appl
c1041	169	6.1	16389	4	US-09-741-154-3	Sequence 3, Appli
c1042	168.8	6.1	1024	4	US-09-328-475C-75	Sequence 75, Appl
c1043	168.8	6.1	1340	4	US-09-461-325-49	Sequence 49, Appl
c1044	168.8	6.1	1340	4	US-10-012-542-49	Sequence 49, Appl
c1045	168.8	6.1	2373	3	US-08-975-762-45	Sequence 45, Appl
c1046	168.8	6.1	2373	3	US-09-295-028-45	Sequence 45, Appl
c1047	168.8	6.1	2373	4	US-09-106-582-45	Sequence 45, Appl
c1048	168.8	6.1	2373	4	US-09-159-469-45	Sequence 45, Appl
c1049	168.8	6.1	2373	4	US-09-693-542-45	Sequence 45, Appl
c1050	168.8	6.1	10545	4	US-09-526-193A-14	Sequence 14, Appl
c1051	168.6	6.1	281	4	US-09-621-976-11890	Sequence 11890, A
c1052	168.6	6.1	290	4	US-09-621-976-11889	Sequence 11889, A
c1053	168.6	6.1	303	4	US-09-621-976-11730	Sequence 11730, A
1054	168.6	6.1	320	1	US-08-629-939-5	Sequence 5, Appli
1055	168.6	6.1	320	1	US-08-759-873-5	Sequence 5, Appli
c1056	168.6	6.1	358	3	US-08-991-789A-168	Sequence 168, App
c1057	168.6	6.1	358	4	US-09-062-451-168	Sequence 168, App
c1058	168.6	6.1	358	4	US-09-598-326-168	Sequence 168, App
c1059	168.6	6.1	358	4	US-09-289-198-168	Sequence 168, App
c1060	168.6	6.1	358	4	US-09-429-755-168	Sequence 168, App
c1061	168.6	6.1	474	4	US-09-621-976-13151	Sequence 13151, A
1062	168.6	6.1	1001	4	US-09-671-317-237	Sequence 237, App
c1063	168.6	6.1	1083	4	US-09-716-129-30	Sequence 30, Appl
1064	168.6	6.1	4517	3	US-09-140-804-9	Sequence 9, Appli
1065	168.6	6.1	4517	4	US-09-686-838B-9	Sequence 9, Appli
1066	168.6	6.1	4517	4	US-09-776-976-5	Sequence 5, Appli
1067	168.6	6.1	4517	4	US-09-909-547-5	Sequence 5, Appli
1068	168.6	6.1	12847	1	US-08-550-715-1	Sequence 1, Appli
c1069	168.6	6.1	41100	4	US-09-755-665-46	Sequence 46, Appl
1070	168.4	6.1	419	4	US-09-621-976-13557	Sequence 13557, A
1071	168.4	6.1	459	4	US-09-621-976-13467	Sequence 13467, A
1072	168.4	6.1	554	4	US-09-227-357-111	Sequence 111, App
c1073	168.4	6.1	1268	4	US-09-369-247-42	Sequence 42, Appl
1074	168.4	6.1	4517	4	US-09-470-881-7	Sequence 7, Appli
1075	168.4	6.1	4517	5	PCT-US93-06251-83	Sequence 83, Appl
1076	168.4	6.1	4773	3	US-08-884-324-9	Sequence 9, Appli
1077	168.4	6.1	11464	3	US-08-884-324-13	Sequence 13, Appl
c1078	168.2	6.1	301	4	US-09-621-976-11649	Sequence 11649, A
c1079	168.2	6.1	345	4	US-09-621-976-11512	Sequence 11512, A
1080	168.2	6.1	378	4	US-09-621-976-8379	Sequence 8379, Ap
c1081	168.2	6.1	466	4	US-09-621-976-18219	Sequence 18219, A
c1082	168.2	6.1	705	4	US-09-328-475C-262	Sequence 262, App
1083	168.2	6.1	1174	2	US-08-481-658B-39	Sequence 39, Appl
1084	168.2	6.1	1174	2	US-08-477-504A-39	Sequence 39, Appl
1085	168.2	6.1	1174	2	US-08-486-756A-39	Sequence 39, Appl
1086	168.2	6.1	1174	2	US-08-485-862B-39	Sequence 39, Appl
1087	168.2	6.1	1174	3	US-08-787-739-39	Sequence 39, Appl
1088	168.2	6.1	1174	3	US-08-487-077A-39	Sequence 39, Appl
1089	168.2	6.1	1174	3	US-08-485-863A-39	Sequence 39, Appl
1090	168.2	6.1	1174	3	US-08-485-049D-39	Sequence 39, Appl
1091	168.2	6.1	1174	3	US-09-178-115-39	Sequence 39, Appl
1092	168.2	6.1	1174	3	US-09-177-776-39	Sequence 39, Appl
1093	168.2	6.1	3101	4	US-09-602-877A-97	Sequence 97, Appl
1094	168.2	6.1	4545	4	US-09-569-852B-5	Sequence 5, Appli
1095	168.2	6.1	10898	2	US-08-481-658B-5	Sequence 5, Appli
1096	168.2	6.1	10898	2	US-08-477-504A-5	Sequence 5, Appli
1097	168.2	6.1	10898	2	US-08-486-756A-5	Sequence 5, Appli
1098	168.2	6.1	10898	2	US-08-485-862B-5	Sequence 5, Appli
1099	168.2	6.1	10898	3	US-08-787-739-5	Sequence 5, Appli
1100	168.2	6.1	10898	3	US-08-487-077A-5	Sequence 5, Appli
1101	168.2	6.1	10898	3	US-08-485-863A-5	Sequence 5, Appli
1102	168.2	6.1	10898	3	US-08-485-049D-5	Sequence 5, Appli
1103	168.2	6.1	10898	3	US-09-178-115-5	Sequence 5, Appli
1104	168.2	6.1	10898	3	US-09-177-776-5	Sequence 5, Appli
1105	168.2	6.1	25464	4	US-09-326-480A-4	Sequence 4, Appli
c1106	168	6.1	3742	1	US-08-694-915-5	Sequence 5, Appli
c1107	167.8	6.1	455	4	US-09-621-976-9987	Sequence 9987, Ap
c1108	167.8	6.1	1169	4	US-09-027-287-1	Sequence 1, Appli
c1109	167.8	6.1	1169	4	US-09-252-656B-1	Sequence 1, Appli
c1110	167.8	6.1	1169	4	US-09-523-323-1	Sequence 1, Appli
1111	167.8	6.1	29629	4	US-09-729-995-3	Sequence 3, Appli
1112	167.8	6.1	29629	4	US-10-135-689-3	Sequence 3, Appli
c1113	167.6	6.1	358	4	US-09-621-976-9061	Sequence 9061, Ap
c1114	167.6	6.1	473	4	US-09-621-976-9175	Sequence 9175, Ap
1115	167.6	6.1	569	3	US-08-943-731-144	Sequence 144, App
1116	167.6	6.1	696	4	US-09-740-235-16	Sequence 16, Appl
c1117	167.6	6.1	2688	2	US-08-909-965C-1	Sequence 1, Appli
1118	167.6	6.1	8021	4	US-09-740-235-2	Sequence 2, Appli
c1119	167.6	6.1	10627	1	US-08-060-925A-12	Sequence 12, Appl
c1120	167.6	6.1	12222	4	US-09-328-925-42	Sequence 42, Appl
c1121	167.6	6.1	12394	4	US-09-488-856A-10	Sequence 10, Appl
1122	167.6	6.1	24183	3	US-08-943-731-3	Sequence 3, Appli

c1123	167.4	6.1	300	4	US-09-621-976-13350	Sequence 13350, A
c1124	167.4	6.1	318	4	US-09-621-976-11511	Sequence 11511, A
c1125	167.4	6.1	371	4	US-09-621-976-11828	Sequence 11828, A
c1126	167.4	6.1	431	4	US-09-621-976-15040	Sequence 15040, A
1127	167.4	6.1	1171	4	US-09-918-686-20	Sequence 20, Appl
c1128	167.4	6.1	1918	4	US-09-599-360B-7	Sequence 7, Appli
c1129	167.4	6.1	1918	4	US-09-599-360B-60	Sequence 60, Appl
1130	167.4	6.1	2921	3	US-08-618-100B-4	Sequence 4, Appli
1131	167.4	6.1	13104	3	US-08-256-799-4	Sequence 4, Appli
1132	167.4	6.1	13104	3	US-08-462-437-4	Sequence 4, Appli
c1133	167.4	6.1	35100	1	US-08-306-691B-19	Sequence 19, Appl
c1134	167.4	6.1	35100	5	PCT-US93-06251-19	Sequence 19, Appl
c1135	167.2	6.1	300	4	US-09-621-976-12295	Sequence 12295, A
1136	167.2	6.1	435	4	US-09-621-976-9179	Sequence 9179, Ap
c1137	167.2	6.1	719	4	US-09-227-357-74	Sequence 74, Appl
1138	167.2	6.1	4078	4	US-09-016-434-1109	Sequence 1109, Ap
c1139	167	6.1	281	4	US-09-621-976-11585	Sequence 11585, A
c1140	167	6.1	303	4	US-09-621-976-474	Sequence 474, App
c1141	167	6.1	354	4	US-09-621-976-8798	Sequence 8798, Ap
c1142	167	6.1	370	4	US-09-621-976-13313	Sequence 13313, A
c1143	167	6.1	1163	4	US-09-482-273-38	Sequence 38, Appl
1144	167	6.1	1200	3	US-09-018-584A-37	Sequence 37, Appl
c1145	167	6.1	1419	3	US-08-943-731-214	Sequence 214, App
c1146	167	6.1	1808	1	US-08-351-149-4	Sequence 4, Appli
c1147	167	6.1	1808	1	US-08-384-828-4	Sequence 4, Appli
c1148	167	6.1	1808	3	US-08-895-474-4	Sequence 4, Appli
c1149	167	6.1	6246	3	US-08-943-731-640	Sequence 640, App
c1150	166.8	6.1	467	4	US-09-621-976-12583	Sequence 12583, A
c1151	166.8	6.1	1001	4	US-09-641-638-256	Sequence 256, App
1152	166.8	6.1	1547	4	US-09-556-002-16	Sequence 16, Appl
c1153	166.8	6.1	4768	4	US-09-526-193A-16	Sequence 16, Appl
c1154	166.8	6.1	17000	4	US-09-679-299A-18	Sequence 18, Appl
c1155	166.6	6.1	355	4	US-09-621-976-9993	Sequence 9993, Ap
c1156	166.6	6.1	357	4	US-09-621-976-12907	Sequence 12907, A
c1157	166.6	6.1	456	4	US-09-621-976-1642	Sequence 1642, Ap
c1158	166.6	6.1	472	4	US-09-621-976-17266	Sequence 17266, A
c1159	166.6	6.1	488	4	US-09-621-976-1646	Sequence 1646, Ap
1160	166.6	6.1	1712	3	US-09-058-389A-12	Sequence 12, Appl
1161	166.6	6.1	1712	4	US-09-611-781-12	Sequence 12, Appl
c1162	166.6	6.1	1829	2	US-08-687-080-57	Sequence 57, Appl
1163	166.6	6.1	3070	4	US-09-489-847-29	Sequence 29, Appl
1164	166.6	6.1	3881	4	US-09-333-593A-1	Sequence 1, Appli
c1165	166.6	6.1	4052	2	US-08-833-226-1	Sequence 1, Appli
1166	166.6	6.1	6354	3	US-09-058-389A-5	Sequence 5, Appli
1167	166.6	6.1	6354	4	US-09-611-781-5	Sequence 5, Appli
c1168	166.6	6.1	13953	4	US-09-738-884-3	Sequence 3, Appli
c1169	166.4	6.1	298	4	US-09-621-976-13124	Sequence 13124, A
c1170	166.4	6.1	348	4	US-09-621-976-11476	Sequence 11476, A
c1171	166.4	6.1	3176	2	US-08-910-733-17	Sequence 17, Appl
c1172	166.4	6.1	3176	2	US-08-910-884-17	Sequence 17, Appl
c1173	166.4	6.1	18400	4	US-09-901-151-3	Sequence 3, Appli
c1174	166.4	6.1	31571	1	US-08-323-443B-1	Sequence 1, Appli
c1175	166.2	6.0	364	4	US-09-621-976-11742	Sequence 11742, A
c1176	166.2	6.0	1001	4	US-09-641-638-175	Sequence 175, App
c1177	166.2	6.0	2310	1	US-08-471-570-9	Sequence 9, Appli
c1178	166.2	6.0	3609	4	US-09-705-299-11	Sequence 11, Appl
1179	166.2	6.0	10877	4	US-09-674-311-1	Sequence 1, Appli
c1180	166	6.0	376	4	US-09-621-976-12760	Sequence 12760, A
c1181	166	6.0	1260	1	US-08-599-252-83	Sequence 83, Appl
c1182	166	6.0	1260	1	US-08-436-074-56	Sequence 56, Appl
c1183	166	6.0	1260	5	PCT-US96-06352-83	Sequence 83, Appl
c1184	166	6.0	1260	5	PCT-US96-06583-83	Sequence 83, Appl
c1185	166	6.0	1340	4	US-09-461-325-113	Sequence 113, App
c1186	166	6.0	1340	4	US-10-012-542-113	Sequence 113, App
c1187	166	6.0	1459	3	US-09-020-956-174	Sequence 174, App
c1188	166	6.0	1459	3	US-09-030-607-174	Sequence 174, App
c1189	166	6.0	1459	4	US-09-439-313-174	Sequence 174, App
c1190	166	6.0	1459	4	US-09-352-616A-174	Sequence 174, App
c1191	166	6.0	1459	4	US-09-232-149A-174	Sequence 174, App
c1192	166	6.0	1459	4	US-09-159-812-174	Sequence 174, App
c1193	166	6.0	1459	4	US-09-636-215-174	Sequence 174, App
c1194	166	6.0	1459	4	US-09-685-166A-174	Sequence 174, App
c1195	166	6.0	1459	4	US-09-115-453-174	Sequence 174, App
c1196	166	6.0	1459	4	US-09-688-489-174	Sequence 174, App
c1197	166	6.0	2133	3	US-08-808-032-1	Sequence 1, Appli
1198	165.8	6.0	522	4	US-09-621-976-2647	Sequence 2647, Ap
c1199	165.8	6.0	5366	4	US-09-705-872-4	Sequence 4, Appli
c1200	165.6	6.0	285	4	US-09-621-976-13561	Sequence 13561, A
c1201	165.6	6.0	386	4	US-09-621-976-8220	Sequence 8220, Ap
c1202	165.6	6.0	463	4	US-09-621-976-8244	Sequence 8244, Ap
1203	165.6	6.0	1827	2	US-08-737-371A-3	Sequence 3, Appli
1204	165.6	6.0	1827	5	PCT-US95-05853-3	Sequence 3, Appli
c1205	165.6	6.0	1940	4	US-09-023-655-1468	Sequence 1468, Ap
c1206	165.6	6.0	4468	4	US-09-620-312D-243	Sequence 243, App
1207	165.6	6.0	6330	4	US-09-880-427-2	Sequence 2, Appli
1208	165.6	6.0	6330	4	US-09-306-538B-2	Sequence 2, Appli
1209	165.6	6.0	6623	2	US-08-687-080-68	Sequence 68, Appl
1210	165.6	6.0	41100	4	US-09-755-665-46	Sequence 46, Appl
c1211	165.4	6.0	419	4	US-09-621-976-17992	Sequence 17992, A
1212	165.4	6.0	444	4	US-09-621-976-14867	Sequence 14867, A
1213	165.4	6.0	485	4	US-09-621-976-1665	Sequence 1665, Ap
c1214	165.4	6.0	1001	4	US-09-671-317-43	Sequence 43, Appl
c1215	165.4	6.0	1053	4	US-09-257-179-31	Sequence 31, Appl
1216	165.4	6.0	2338	4	US-09-620-312D-411	Sequence 411, App
c1217	165.4	6.0	3001	4	US-09-539-333D-142	Sequence 142, App
c1218	165.4	6.0	3433	4	US-09-820-924-1	Sequence 1, Appli
1219	165.4	6.0	3834	4	US-09-620-312D-933	Sequence 933, App
c1220	165.4	6.0	7505	3	US-09-078-294-13	Sequence 13, Appl
c1221	165.4	6.0	13104	3	US-08-256-799-4	Sequence 4, Appli
c1222	165.4	6.0	13104	3	US-08-462-437-4	Sequence 4, Appli
c1223	165.2	6.0	325	4	US-09-621-976-12097	Sequence 12097, A
c1224	165.2	6.0	326	4	US-09-621-976-12018	Sequence 12018, A
c1225	165.2	6.0	327	4	US-09-621-976-12423	Sequence 12423, A
c1226	165.2	6.0	343	4	US-09-621-976-10158	Sequence 10158, A
c1227	165.2	6.0	361	4	US-09-621-976-12227	Sequence 12227, A
c1228	165.2	6.0	369	4	US-09-621-976-9151	Sequence 9151, Ap
c1229	165.2	6.0	454	4	US-09-621-976-13213	Sequence 13213, A
1230	165.2	6.0	509	4	US-09-621-976-3804	Sequence 3804, Ap
1231	165.2	6.0	668	3	US-09-347-114A-93	Sequence 93, Appl
c1232	165.2	6.0	799	4	US-09-166-350-11	Sequence 11, Appl
c1233	165.2	6.0	1164	3	US-08-755-587-32	Sequence 32, Appl
c1234	165.2	6.0	1875	2	US-08-683-743-3	Sequence 3, Appli
c1235	165.2	6.0	3865	1	US-08-832-883-48	Sequence 48, Appl
c1236	165.2	6.0	3865	2	US-08-832-877-48	Sequence 48, Appl
c1237	165.2	6.0	8342	3	US-08-545-860D-63	Sequence 63, Appl
c1238	165.2	6.0	8342	5	PCT-US94-04496-63	Sequence 63, Appl
c1239	165.2	6.0	38059	4	US-09-328-925-4	Sequence 4, Appli
c1240	165	6.0	309	4	US-09-621-976-11427	Sequence 11427, A
1241	165	6.0	491	4	US-09-621-976-1668	Sequence 1668, Ap
c1242	165	6.0	495	4	US-09-621-976-14765	Sequence 14765, A
c1243	165	6.0	1407	4	US-09-482-273-32	Sequence 32, Appl
c1244	165	6.0	5615	4	US-09-302-769-47	Sequence 47, Appl
c1245	164.8	6.0	296	4	US-09-621-976-11908	Sequence 11908, A
c1246	164.8	6.0	297	4	US-09-621-976-13568	Sequence 13568, A
c1247	164.8	6.0	344	4	US-09-621-976-14485	Sequence 14485, A
c1248	164.8	6.0	361	4	US-09-621-976-11659	Sequence 11659, A
c1249	164.8	6.0	361	4	US-09-621-976-11695	Sequence 11695, A
c1250	164.8	6.0	361	4	US-09-621-976-13543	Sequence 13543, A
c1251	164.8	6.0	480	4	US-09-621-976-13863	Sequence 13863, A
1252	164.8	6.0	533	4	US-09-621-976-2144	Sequence 2144, Ap
1253	164.8	6.0	588	3	US-09-385-982-128	Sequence 128, App
1254	164.8	6.0	7152	3	US-09-167-681-29	Sequence 29, Appl
c1255	164.8	6.0	17949	3	US-09-087-465-3	Sequence 3, Appli
c1256	164.6	6.0	346	4	US-09-621-976-2559	Sequence 2559, Ap
c1257	164.6	6.0	658	4	US-09-621-976-19176	Sequence 19176, A
1258	164.6	6.0	1389	4	US-09-904-615-54	Sequence 54, Appl
c1259	164.6	6.0	3885	1	US-08-688-145-1	Sequence 1, Appli
1260	164.6	6.0	10545	4	US-09-526-193A-14	Sequence 14, Appl
1261	164.4	6.0	294	2	US-08-481-658B-61	Sequence 61, Appl
1262	164.4	6.0	294	2	US-08-477-504A-61	Sequence 61, Appl
1263	164.4	6.0	294	2	US-08-486-756A-61	Sequence 61, Appl
1264	164.4	6.0	294	2	US-08-485-862B-61	Sequence 61, Appl
1265	164.4	6.0	294	3	US-08-787-739-61	Sequence 61, Appl
1266	164.4	6.0	294	3	US-08-487-077A-61	Sequence 61, Appl
1267	164.4	6.0	294	3	US-08-485-863A-61	Sequence 61, Appl
1268	164.4	6.0	294	3	US-08-485-049D-61	Sequence 61, Appl

1269	164.4	6.0	294	3	US-09-178-115-61	Sequence 61, Appl
1270	164.4	6.0	294	3	US-09-177-776-61	Sequence 61, Appl
c1271	164.4	6.0	452	4	US-09-621-976-3451	Sequence 3451, Ap
1272	164.4	6.0	1664	1	US-08-250-740-34	Sequence 34, Appl
1273	164.4	6.0	1664	1	US-07-695-472B-3	Sequence 3, Appli
1274	164.4	6.0	1664	4	US-09-106-375-3	Sequence 3, Appli
c1275	164.4	6.0	2503	3	US-09-198-122-7	Sequence 7, Appli
1276	164.4	6.0	5789	3	US-09-242-948-3	Sequence 3, Appli
1277	164.2	6.0	310	4	US-09-621-976-7830	Sequence 7830, Ap
1278	164.2	6.0	396	4	US-09-640-173-46	Sequence 46, Appl
1279	164.2	6.0	396	4	US-09-713-550-46	Sequence 46, Appl
c1280	164.2	6.0	6792	4	US-09-374-454-20	Sequence 20, Appl
c1281	164.2	6.0	38564	4	US-09-734-673-3	Sequence 3, Appli
c1282	164	6.0	309	4	US-09-621-976-11426	Sequence 11426, A
c1283	164	6.0	415	4	US-09-621-976-14452	Sequence 14452, A
1284	164	6.0	926	3	US-08-938-669A-4	Sequence 4, Appli
1285	164	6.0	926	4	US-09-306-828-4	Sequence 4, Appli
c1286	164	6.0	1062	4	US-09-621-976-1721	Sequence 1721, Ap
c1287	164	6.0	2808	3	US-08-870-126-7	Sequence 7, Appli
c1288	164	6.0	2808	4	US-09-445-247-7	Sequence 7, Appli
1289	164	6.0	3001	4	US-09-539-333D-187	Sequence 187, App
c1290	164	6.0	3715	3	US-09-085-199B-44	Sequence 44, Appl
c1291	163.8	6.0	347	4	US-09-621-976-11597	Sequence 11597, A
c1292	163.8	6.0	635	3	US-09-078-294-15	Sequence 15, Appl
c1293	163.8	6.0	955	4	US-09-641-638-22	Sequence 22, Appl
c1294	163.8	6.0	1417	4	US-09-904-615-31	Sequence 31, Appl
c1295	163.8	6.0	1866	4	US-09-016-434-1205	Sequence 1205, Ap
c1296	163.8	6.0	3350	1	US-08-247-946A-2	Sequence 2, Appli
c1297	163.8	6.0	3350	5	PCT-US95-06420-2	Sequence 2, Appli
1298	163.6	6.0	803	2	US-08-967-101-117	Sequence 117, App
1299	163.6	6.0	803	2	US-08-592-541-117	Sequence 117, App
1300	163.6	6.0	803	3	US-09-124-698-117	Sequence 117, App
1301	163.6	6.0	803	3	US-09-127-480-117	Sequence 117, App
1302	163.6	6.0	803	3	US-08-496-841C-117	Sequence 117, App
1303	163.6	6.0	803	4	US-09-124-523-117	Sequence 117, App
1304	163.6	6.0	803	4	US-09-636-796A-117	Sequence 117, App
1305	163.6	6.0	803	4	US-08-431-048F-117	Sequence 117, App
c1306	163.6	6.0	1102	4	US-09-016-434-1131	Sequence 1131, Ap
c1307	163.6	6.0	1102	4	US-09-023-655-943	Sequence 943, App
c1308	163.6	6.0	1120	3	US-08-884-324-2	Sequence 2, Appli
c1309	163.6	6.0	1120	3	US-08-832-180-6	Sequence 6, Appli
c1310	163.6	6.0	2167	3	US-08-884-324-7	Sequence 7, Appli
1311	163.6	6.0	5543	2	US-08-687-080-101	Sequence 101, App
1312	163.6	6.0	7620	1	US-07-767-135-1	Sequence 1, Appli
1313	163.6	6.0	7620	1	US-07-841-652-1	Sequence 1, Appli
c1314	163.6	6.0	8396	4	US-09-328-174A-1	Sequence 1, Appli
c1315	163.6	6.0	8409	3	US-09-167-681-37	Sequence 37, Appl
c1316	163.4	5.9	382	4	US-09-621-976-14099	Sequence 14099, A
c1317	163.4	5.9	569	4	US-09-621-976-2191	Sequence 2191, Ap
c1318	163.4	5.9	4316	1	US-08-317-450B-14	Sequence 14, Appl
c1319	163.4	5.9	4316	3	US-08-800-593-14	Sequence 14, Appl
c1320	163.4	5.9	5037	4	US-09-705-299-13	Sequence 13, Appl
c1321	163.4	5.9	9365	4	US-09-608-285A-8	Sequence 8, Appli
c1322	163.4	5.9	9365	4	US-09-350-836B-8	Sequence 8, Appli
c1323	163.4	5.9	9365	4	US-09-370-265-8	Sequence 8, Appli
c1324	163.4	5.9	9365	4	US-09-557-800C-8	Sequence 8, Appli
c1325	163.4	5.9	9365	4	US-09-370-625A-8	Sequence 8, Appli
c1326	163.4	5.9	18073	3	US-09-078-294-12	Sequence 12, Appl
c1327	163.2	5.9	257	2	US-08-849-701-4	Sequence 4, Appli
1328	163.2	5.9	345	4	US-09-621-976-11855	Sequence 11855, A
c1329	163.2	5.9	434	4	US-09-621-976-13280	Sequence 13280, A
c1330	163.2	5.9	601	4	US-09-820-002-7	Sequence 7, Appli
1331	163.2	5.9	1401	2	US-08-481-658B-49	Sequence 49, Appl
1332	163.2	5.9	1401	2	US-08-477-504A-49	Sequence 49, Appl
1333	163.2	5.9	1401	2	US-08-486-756A-49	Sequence 49, Appl
1334	163.2	5.9	1401	2	US-08-485-862B-49	Sequence 49, Appl
1335	163.2	5.9	1401	3	US-08-787-739-49	Sequence 49, Appl
1336	163.2	5.9	1401	3	US-08-487-077A-49	Sequence 49, Appl
1337	163.2	5.9	1401	3	US-08-485-863A-49	Sequence 49, Appl
1338	163.2	5.9	1401	3	US-08-485-049D-49	Sequence 49, Appl
1339	163.2	5.9	1401	3	US-09-178-115-49	Sequence 49, Appl
1340	163.2	5.9	1401	3	US-09-177-776-49	Sequence 49, Appl
c1341	163.2	5.9	2023	4	US-09-491-522-6	Sequence 6, Appli
1342	163.2	5.9	2480	4	US-09-534-638-3	Sequence 3, Appli
1343	163.2	5.9	10825	3	US-08-652-265-1	Sequence 1, Appli
1344	163.2	5.9	10825	3	US-08-652-265-3	Sequence 3, Appli
1345	163.2	5.9	10825	3	US-08-652-265-5	Sequence 5, Appli
1346	163.2	5.9	10825	3	US-08-652-265-7	Sequence 7, Appli
1347	163.2	5.9	10825	3	US-08-834-497A-1	Sequence 1, Appli
1348	163.2	5.9	10825	3	US-08-834-497A-3	Sequence 3, Appli
1349	163.2	5.9	10825	3	US-08-834-497A-5	Sequence 5, Appli
1350	163.2	5.9	10825	3	US-08-834-497A-7	Sequence 7, Appli
1351	163.2	5.9	10825	3	US-09-503-444A-1	Sequence 1, Appli
1352	163.2	5.9	10825	3	US-09-503-444A-3	Sequence 3, Appli
1353	163.2	5.9	10825	3	US-09-503-444A-5	Sequence 5, Appli
1354	163.2	5.9	10825	3	US-09-503-444A-7	Sequence 7, Appli
1355	163.2	5.9	12146	4	US-09-277-457-27	Sequence 27, Appl
1356	163.2	5.9	12146	4	US-09-679-729-27	Sequence 27, Appl
1357	163	5.9	503	4	US-09-621-976-2069	Sequence 2069, Ap
1358	163	5.9	661	2	US-08-529-878B-37	Sequence 37, Appl
c1359	163	5.9	901	1	US-08-832-883-65	Sequence 65, Appl
c1360	163	5.9	901	2	US-08-832-877-65	Sequence 65, Appl
c1361	163	5.9	2091	4	US-09-620-312D-743	Sequence 743, App
c1362	163	5.9	2343	2	US-09-031-392-1	Sequence 1, Appli
c1363	163	5.9	2343	3	US-09-299-549-1	Sequence 1, Appli
c1364	163	5.9	2343	4	US-09-610-417-1	Sequence 1, Appli
c1365	163	5.9	4326	2	US-08-852-807-12	Sequence 12, Appl
c1366	163	5.9	13674	2	US-08-852-807-1	Sequence 1, Appli
c1367	162.8	5.9	294	4	US-09-621-976-12202	Sequence 12202, A
c1368	162.8	5.9	322	4	US-09-621-976-14512	Sequence 14512, A
1369	162.8	5.9	363	4	US-09-621-976-14988	Sequence 14988, A
1370	162.8	5.9	370	4	US-09-621-976-14907	Sequence 14907, A
1371	162.8	5.9	501	4	US-09-621-976-537	Sequence 537, App
c1372	162.8	5.9	1243	3	US-09-103-875-16	Sequence 16, Appl
c1373	162.8	5.9	9301	4	US-09-449-218D-18	Sequence 18, Appl
c1374	162.8	5.9	9301	4	US-09-668-529A-18	Sequence 18, Appl
c1375	162.8	5.9	9301	4	US-09-668-037A-18	Sequence 18, Appl
1376	162.8	5.9	14855	2	US-08-687-080-59	Sequence 59, Appl
1377	162.6	5.9	458	4	US-09-621-976-14965	Sequence 14965, A
c1378	162.6	5.9	515	4	US-09-404-879A-143	Sequence 143, App
c1379	162.6	5.9	515	4	US-09-338-933-143	Sequence 143, App
c1380	162.6	5.9	515	4	US-09-215-681-143	Sequence 143, App
c1381	162.6	5.9	515	4	US-09-216-003A-143	Sequence 143, App
1382	162.6	5.9	519	4	US-09-621-976-10270	Sequence 10270, A
c1383	162.6	5.9	852	4	US-09-526-193A-25	Sequence 25, Appl
1384	162.6	5.9	2380	4	US-09-023-655-925	Sequence 925, App
1385	162.6	5.9	3350	3	US-09-110-116-2	Sequence 2, Appli
c1386	162.6	5.9	4419	4	US-09-620-312D-187	Sequence 187, App
c1387	162.6	5.9	29485	4	US-09-785-381-6	Sequence 6, Appli
c1388	162.4	5.9	345	3	US-09-385-982-145	Sequence 145, App
c1389	162.4	5.9	347	4	US-09-621-976-11693	Sequence 11693, A
c1390	162.4	5.9	370	4	US-09-621-976-12597	Sequence 12597, A
c1391	162.4	5.9	478	4	US-09-621-976-15170	Sequence 15170, A
c1392	162.4	5.9	485	4	US-09-621-976-1908	Sequence 1908, Ap
c1393	162.4	5.9	1001	4	US-09-671-317-274	Sequence 274, App
c1394	162.4	5.9	2174	4	US-09-613-444-1	Sequence 1, Appli
1395	162.4	5.9	4244	4	US-09-340-620A-54	Sequence 54, Appl
1396	162.4	5.9	5597	4	US-09-635-872A-4	Sequence 4, Appli
1397	162.4	5.9	5597	4	US-09-636-077A-4	Sequence 4, Appli
1398	162.4	5.9	5597	4	US-09-636-060C-4	Sequence 4, Appli
1399	162.4	5.9	5597	4	US-09-986-552-4	Sequence 4, Appli
c1400	162.2	5.9	343	4	US-09-621-976-12756	Sequence 12756, A
c1401	162.2	5.9	559	4	US-09-621-976-16821	Sequence 16821, A
c1402	162.2	5.9	618	3	US-09-385-982-373	Sequence 373, App
c1403	162.2	5.9	1491	4	US-09-461-325-22	Sequence 22, Appl
c1404	162.2	5.9	1491	4	US-10-012-542-22	Sequence 22, Appl
1405	162.2	5.9	2197	4	US-09-907-794A-11	Sequence 11, Appl
1406	162.2	5.9	2197	4	US-09-905-125A-11	Sequence 11, Appl
1407	162.2	5.9	2197	4	US-09-902-775A-11	Sequence 11, Appl
c1408	162.2	5.9	2841	4	US-09-526-193A-24	Sequence 24, Appl
1409	162	5.9	436	4	US-09-621-976-10893	Sequence 10893, A
c1410	162	5.9	439	4	US-09-621-976-10550	Sequence 10550, A
c1411	162	5.9	476	4	US-09-621-976-14414	Sequence 14414, A
c1412	162	5.9	485	4	US-09-621-976-2118	Sequence 2118, Ap
1413	162	5.9	518	4	US-09-621-976-19050	Sequence 19050, A
1414	162	5.9	676	4	US-09-490-818-1	Sequence 1, Appli

c1415	162	5.9	826	4	US-09-288-143-45	Sequence 45, Appl
c1416	162	5.9	1853	4	US-09-439-313-369	Sequence 369, App
c1417	162	5.9	1853	4	US-09-062-451-295	Sequence 295, App
c1418	162	5.9	1853	4	US-09-352-616A-369	Sequence 369, App
c1419	162	5.9	1853	4	US-09-289-198-295	Sequence 295, App
c1420	162	5.9	1853	4	US-09-636-215-369	Sequence 369, App
c1421	162	5.9	1853	4	US-09-685-166A-369	Sequence 369, App
c1422	162	5.9	1853	4	US-09-429-755-295	Sequence 295, App
c1423	162	5.9	2184	4	US-09-439-313-370	Sequence 370, App
c1424	162	5.9	2184	4	US-09-062-451-296	Sequence 296, App
c1425	162	5.9	2184	4	US-09-352-616A-370	Sequence 370, App
c1426	162	5.9	2184	4	US-09-289-198-296	Sequence 296, App
c1427	162	5.9	2184	4	US-09-636-215-370	Sequence 370, App
c1428	162	5.9	2184	4	US-09-685-166A-370	Sequence 370, App
c1429	162	5.9	2184	4	US-09-429-755-296	Sequence 296, App
c1430	162	5.9	14364	4	US-10-067-443-20	Sequence 20, Appl
c1431	161.8	5.9	293	4	US-09-621-976-11751	Sequence 11751, A
c1432	161.8	5.9	307	4	US-09-621-976-14378	Sequence 14378, A
c1433	161.8	5.9	341	4	US-09-621-976-13062	Sequence 13062, A
1434	161.8	5.9	3001	4	US-09-539-333D-188	Sequence 188, App
c1435	161.8	5.9	4895	3	US-09-053-866-1	Sequence 1, Appli
c1436	161.8	5.9	4895	4	US-09-479-130-1	Sequence 1, Appli
c1437	161.8	5.9	4895	4	US-09-472-130A-1	Sequence 1, Appli
1438	161.6	5.9	318	4	US-09-621-976-11879	Sequence 11879, A
1439	161.6	5.9	327	4	US-09-621-976-12084	Sequence 12084, A
1440	161.6	5.9	331	4	US-09-621-976-18173	Sequence 18173, A
1441	161.6	5.9	336	4	US-09-621-976-11871	Sequence 11871, A
c1442	161.6	5.9	338	4	US-09-621-976-13555	Sequence 13555, A
1443	161.6	5.9	340	4	US-09-621-976-11770	Sequence 11770, A
1444	161.6	5.9	343	4	US-09-621-976-11941	Sequence 11941, A
1445	161.6	5.9	343	4	US-09-621-976-11947	Sequence 11947, A
1446	161.6	5.9	343	4	US-09-621-976-12234	Sequence 12234, A
1447	161.6	5.9	343	4	US-09-621-976-12385	Sequence 12385, A
1448	161.6	5.9	344	4	US-09-621-976-11862	Sequence 11862, A
1449	161.6	5.9	345	4	US-09-621-976-11806	Sequence 11806, A
c1450	161.6	5.9	478	4	US-09-621-976-15071	Sequence 15071, A
1451	161.6	5.9	579	3	US-09-328-111-741	Sequence 741, App
1452	161.6	5.9	999	4	US-09-345-882-3	Sequence 3, Appli
c1453	161.6	5.9	1110	4	US-09-511-625B-43	Sequence 43, Appl
c1454	161.6	5.9	1563	4	US-09-489-847-37	Sequence 37, Appl
1455	161.6	5.9	2000	3	US-09-039-555B-19	Sequence 19, Appl
c1456	161.6	5.9	17425	4	US-09-511-625B-5	Sequence 5, Appli
c1457	161.4	5.9	354	4	US-09-621-976-14159	Sequence 14159, A
c1458	161.4	5.9	358	4	US-09-621-976-11727	Sequence 11727, A
1459	161.4	5.9	649	4	US-09-624-268B-7	Sequence 7, Appli
1460	161.4	5.9	1441	4	US-09-122-171D-4	Sequence 4, Appli
1461	161.4	5.9	2086	3	US-08-589-028-9	Sequence 9, Appli
1462	161.4	5.9	2086	3	US-08-784-582-9	Sequence 9, Appli
1463	161.4	5.9	2086	3	US-08-785-271-9	Sequence 9, Appli
c1464	161.4	5.9	7452	3	US-08-592-500-1	Sequence 1, Appli
c1465	161.4	5.9	7452	3	US-08-195-006-1	Sequence 1, Appli
c1466	161.4	5.9	7452	5	PCT-US94-07644A-1	Sequence 1, Appli
1467	161.4	5.9	9164	4	US-09-205-817A-2	Sequence 2, Appli
1468	161.4	5.9	9274	4	US-09-811-115-1	Sequence 1, Appli
1469	161.4	5.9	11846	4	US-09-205-817A-4	Sequence 4, Appli
1470	161.4	5.9	12022	4	US-09-205-817A-3	Sequence 3, Appli
c1471	161.2	5.9	304	4	US-09-621-976-14733	Sequence 14733, A
c1472	161.2	5.9	313	4	US-09-621-976-14934	Sequence 14934, A
c1473	161.2	5.9	322	4	US-09-621-976-11620	Sequence 11620, A
c1474	161.2	5.9	328	4	US-09-621-976-14841	Sequence 14841, A
c1475	161.2	5.9	328	4	US-09-621-976-14924	Sequence 14924, A
c1476	161.2	5.9	339	4	US-09-621-976-13353	Sequence 13353, A
1477	161.2	5.9	343	4	US-09-621-976-11725	Sequence 11725, A
1478	161.2	5.9	346	4	US-09-621-976-12435	Sequence 12435, A
c1479	161.2	5.9	412	4	US-09-621-976-18424	Sequence 18424, A
c1480	161.2	5.9	2630	4	US-09-962-665-13	Sequence 13, Appl
c1481	161.2	5.9	2630	4	US-09-963-333-13	Sequence 13, Appl
1482	161.2	5.9	3001	4	US-09-539-333D-136	Sequence 136, App
c1483	161.2	5.9	3805	4	US-09-108-006C-3	Sequence 3, Appli
1484	161.2	5.9	4550	3	US-09-103-663-35	Sequence 35, Appl
1485	161.2	5.9	11725	2	US-08-756-506-1	Sequence 1, Appli
1486	161.2	5.9	11725	4	US-09-328-925-50	Sequence 50, Appl
c1487	161	5.9	342	4	US-09-621-976-2987	Sequence 2987, Ap
c1488	161	5.9	514	4	US-09-621-976-10635	Sequence 10635, A
c1489	161	5.9	526	4	US-09-621-976-2692	Sequence 2692, Ap
c1490	161	5.9	788	4	US-09-288-143-27	Sequence 27, Appl
c1491	161	5.9	856	4	US-09-288-143-47	Sequence 47, Appl
1492	161	5.9	1524	3	US-09-056-105-2	Sequence 2, Appli
1493	161	5.9	1559	2	US-08-417-174-1	Sequence 1, Appli
1494	161	5.9	1559	2	US-08-231-565A-1	Sequence 1, Appli
1495	161	5.9	1559	2	US-09-007-961-1	Sequence 1, Appli
1496	161	5.9	1559	3	US-09-267-439-1	Sequence 1, Appli
1497	161	5.9	1559	4	US-09-073-138-1	Sequence 1, Appli
1498	161	5.9	2099	3	US-08-938-669A-5	Sequence 5, Appli
1499	161	5.9	2099	4	US-09-306-828-5	Sequence 5, Appli
1500	161	5.9	6405	4	US-09-281-481A-18	Sequence 18, Appl

ALIGNMENTS

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RESULT 1
US-10-027-983-11/c
; Sequence 11, Application US/10027983
; Patent No. 6617162
; GENERAL INFORMATION:
;  APPLICANT: Kenneth W. Dobie
;  APPLICANT:  Mark P. Roach
;  TITLE OF INVENTION: ANTISENSE MODULATION OF ESTROGEN RECEPTOR ALPHA EXPRESSION
;  FILE REFERENCE: RTS-0340
;  CURRENT APPLICATION NUMBER: US/10/027,983
;  CURRENT FILING DATE:  2001-12-18
;  NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 11
;   LENGTH: 392000
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: 137740
;   OTHER INFORMATION: unknown
;   NAME/KEY: unsure
;   LOCATION: 137742
;   OTHER INFORMATION: unknown
;   NAME/KEY: misc_feature
;   LOCATION: (138122)...(138221)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: unsure
;   LOCATION: 145507
;   OTHER INFORMATION: unknown
;   NAME/KEY: unsure
;   LOCATION: 151967
;   OTHER INFORMATION: unknown
;   NAME/KEY: misc_feature
;   LOCATION: (151967)...(1542066)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: unsure
;   LOCATION: 154217
;   OTHER INFORMATION: unknown
;   NAME/KEY: misc_feature
;   LOCATION: (164037)...(164136)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: misc_feature
;   LOCATION: (174657)...(174756)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: misc_feature
;   LOCATION: (186224)...(186323)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: misc_feature
;   LOCATION: (195242)...(195341)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: unsure
;   LOCATION: 202703
;   OTHER INFORMATION: unknown
;   NAME/KEY: misc_feature
;   LOCATION: (202771)...(202870)
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;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: misc_feature
;   LOCATION: (206246)...(215602)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: misc_feature
;   LOCATION: (218126)...(218225)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: misc_feature
;   LOCATION: (220360)...(220459)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: misc_feature
;   LOCATION: (222717)...(222816)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: misc_feature
;   LOCATION: (223981)...(224080)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: misc_feature
;   LOCATION: (227487)...(227586)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: misc_feature
;   LOCATION: (230157)...(230256)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: misc_feature
;   LOCATION: (232299)...(232398)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: misc_feature
;   LOCATION: (236552)...(2366651)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: misc_feature
;   LOCATION: (238789)...(248788)
;   OTHER INFORMATION: n = A,T,C or G
;   NAME/KEY: exon
;   LOCATION: (118288)...(119101)
;   OTHER INFORMATION: exon 1C
;   NAME/KEY: exon:intron junction
;   LOCATION: (151129)...(151130)
;   OTHER INFORMATION: exon 5:intron 5
;   NAME/KEY: exon:intron junction
;   LOCATION: (299248)...(299249)
;   OTHER INFORMATION: exon 9:intron 9
;   NAME/KEY: exon:intron junction
;   LOCATION: (348578)...(348579)
;   OTHER INFORMATION: exon 10:intron 10
;   NAME/KEY: intron
;   LOCATION: (348579)...(381838)
;   OTHER INFORMATION: intron 10
;   NAME/KEY: intron:exon junction
;   LOCATION: (386185)...(386186)
;   OTHER INFORMATION: intron 11:exon 12
US-10-027-983-11

  Query Match             7.9%;  Score 216.2;  DB 4;  Length 392000;
  Best Local Similarity   80.1%;  Pred. No. 3.2e-47;
  Matches  270;  Conservative    0;  Mismatches   58;  Indels    9;  Gaps    1;

Qy       2108 AGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGAATCTCGT 2167
              ||  ||  || | | |||||  |||||  |||||  | | |||| ||||||| |||||
Db      67771 AGATCATTTATTTTCTTTTTAATTTTTATTTTATTTATTTATTTTGAGACAGAGTCTCGC 67712

Qy       2168 GCTGCTGCCCAGGCTGGAGTGCAGTGGCACGAT---------CTGCAAACTCCGCCTCCT 2218
               |||  |||||||||||||||||||||| | ||          |||||| || |||||||
Db      67711 TCTGTCGCCCAGGCTGGAGTGCAGTGGCTCAATGCCGGCTCACTGCAACCTTCGCCTCCA 67652

Qy       2219 GGGTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCA 2278
              ||||||||| ||||||| ||||||||||||||||||||||||||||||||||||||||||||||
Db      67651 GGGTTCAAGCGATTCTTGTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCACCA 67592

Qy       2279 CCACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGC 2338
              |||||||  |||||||||||||| ||||| |||||| |||||||||||||||||| ||||||
Db      67591 CCACACCCAGCTAATTTTTGTATTTTTAATAGAGACGGGGTTTCACCATGTTGCCCAGGC 67532

Qy       2339 TGGTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGAT 2398
              |||||||||||||||||||||||| ||| |  || || || | |||||||| ||| |||||
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Db      67531 TGGTCTTGAACTCCTGACCTCAAGTGATCTGCCCGCCTCGGCCTCCCAAAGTGCTGGGAT 67472

Qy       2399 TACAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTT 2435
              ||||||| |||||||    | | |||||  ||    ||
Db      67471 TACAGGCGTGAGCCATCACGCCCGGCCCATTTAATTT 67435


RESULT 2
US-09-435-739-42
; Sequence 42, Application US/09435739
; Patent No. 6664105
; GENERAL INFORMATION:
;  APPLICANT: Pecker, Iris
;  APPLICANT:  Vlodavsky, Israel
;  APPLICANT:  Feinstein, Elena
;  TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY A
;  TITLE OF INVENTION:  EXPRESSION OF SAME IN GENETICALLY MODIFIED CELLS
;  FILE REFERENCE: 00/20454
;  CURRENT APPLICATION NUMBER: US/09/435,739
;  CURRENT FILING DATE:  2001-06-05
;  NUMBER OF SEQ ID NOS: 47
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 42
;   LENGTH: 44848
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-435-739-42

  Query Match             7.9%;  Score 216;  DB 4;  Length 44848;
  Best Local Similarity   75.3%;  Pred. No. 1e-47;
  Matches  286;  Conservative    0;  Mismatches   85;  Indels    9;  Gaps    1;

Qy       2109 GCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGAATCTCGTG 2168
              | | |  |  | | ||| ||||||||   || || || |||| | ||||||| ||||
Db      37801 GTAGACATTTTTTCTTTCTTCTTTTTTTTTTTTTTTTTTTTTCTGAGACAGAGTCTCACT 37860

Qy       2169 CTGCTGCCCAGGCTGGAGTGCAGTGGCACGAT---------CTGCAAACTCCGCCTCCTG 2219
              ||| || ||||||| ||||||||||||  |||          |||||| ||||||||||||
Db      37861 CTGTTGTCCAGGCTAGAGTGCAGTGGCGTGATCTAGGCTCACTGCAACCTCCGCCTCCTG 37920

Qy       2220 GGTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCAC 2279
              ||||||||  ||||| |  |||||||||||| |||||||||||||| ||||| ||| |||
Db      37921 GGTTCAAGCAATTCTCCCACCTCAGCCTCCCTAGTAGCTGGGATTAGAGGCATGCATCAC 37980

Qy       2280 CACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCT 2339
              ||| |||||||||||||||| ||||||||||||| |||||||||||| |||||||||
Db      37981 CACGCCTGGCTAATTTTTGTATTTTTAGTAGAGATGAGGTTTCACCATGTGGGCCAGGCT 38040

Qy       2340 GGTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATT 2399
              |||||||||||||||||||||| ||| || ||||| | || |||||||| |||  |||||
Db      38041 GGTCTTGAACTCCTGACCTCAAGTGATCCACCTGCCTTAGCCTCCCAAAGTGCTAGGATT 38100

Qy       2400 ACAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTT 2459
              ||| |  |||||||| ||| |  ||||   || | ||   |    | |||    ||| |
Db      38101 ACACGAGTGAGCCACCGTGCCCTGCCCCTATTACATTCTGATCACACATTTCATGTTTTA 38160

Qy       2460 CAGTATGCAAAACTTGGAAA 2479
              | |  | |||     ||||
Db      38161 TAATTGGAAAACTGGTGAAA 38180


RESULT 3
US-08-367-841A-43
; Sequence 43, Application US/08367841A
; Patent No. 6319687
;  GENERAL INFORMATION:
;    APPLICANT:  Chader, Gerald J.; Rodriguez,
;    APPLICANT:  Ignacio R.; Mazuruk, Krzysztof;
;    APPLICANT:  Tombran-Tink, Joyce
;    TITLE OF INVENTION:  PIGMENT EPITHELIUM
;    TITLE OF INVENTION:  DERIVED FACTOR: CHARACTERIZATION GENOMIC
;    TITLE OF INVENTION:  ORGANIZATION AND SEQUENCE OF THE PEDF GENE
;    NUMBER OF SEQUENCES:  43
```

```
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Morgan & Finnegan
;      STREET:  345 Park Avenue
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy Disk
;      COMPUTER:  IBM PC Compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  WORDPERFECT 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/367,841A
;      FILING DATE:  30-DEC-1994
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/257,963
;      FILING DATE:  07-JUN-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/952,796
;      FILING DATE:  24-SEP-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  DOROTHY R. AUTH
;      REGISTRATION NUMBER:  36434
;      REFERENCE/DOCKET NUMBER:  20264126US2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 758-4800
;      TELEFAX:  (212) 751-6849
;  INFORMATION FOR SEQ ID NO:  43:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  22481 Base Pairs
;      TYPE:  Nucleic Acid
;      STRANDEDNESS:  Double
;      TOPOLOGY:  Unknown
;    MOLECULE TYPE:  Genomic DNA
;    FEATURE:
;      NAME/KEY:  Pl-147
;      LOCATION:
;      IDENTIFICATION METHOD:
;      OTHER INFORMATION:  full length genomic
;      OTHER INFORMATION:  sequence for PEDF plus flanking sequences.
US-08-367-841A-43

  Query Match             7.8%;  Score 214.8;  DB 4;  Length 22481;
  Best Local Similarity   76.5%;  Pred. No. 1.5e-47;
  Matches  280;  Conservative    0;  Mismatches   77;  Indels    9;  Gaps    1;

Qy       2080 GAGAAGGGGTCGGGGGTGGTGGTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATT 2139
             | |  |||| |  |||  | ||  |    ||    |   | |   ||| ||||||| ||
Db       9455 GTGTTGGGGGCCAGGGCAGGGGAGACAACGCTGTTCAGATTCTACATTTTTTTTTCCTTT 9514

Qy       2140 ATTATTGTTTTTTAAGACAGAATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGA 2199
               || || |||||| |||  || ||| |  ||| ||||||| |||||||||||||| |||
Db       9515 TTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTTGCCCAGCCTGGAGTGCAGTGGCGCGA 9574

Qy       2200 T---------CTGCAAACTCCGCCTCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCC 2250
              |         |||||| |||| | |||||| |||||||||||| |||||| ||||||||
Db       9575 TCTCAGCTCACTGCAACCTCCACTTCCTGGATTCAAGTGATTCTCCTGCCTTAGCCTCCC 9634

Qy       2251 GAGTAGCTGGGATTACAGGCACGCACCACCACACCTGGCTAATTTTTGTACTTTTAGTAG 2310
              |||||||||||||||||||| || |||||||||| |||||||||||||| |||||||||
Db       9635 AAGTAGCTGGGATTACAGGCATGCGCCACCACACCCGGCTAATTTTTGTATTTTTAGTAG 9694

Qy       2311 AGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAATGAGCCTC 2370
              |||||||||||| |||||||||||||| ||||||  |||||||||||||  ||| |  |
Db       9695 AGATGGGGTTTCTCCATGTTGGCCAGGATGGTCTCAAACTCCTGACCTCAGGTGATCTAC 9754

Qy       2371 CTGCTTCAGTCTCCCAAATTGCCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATT 2430
              | || || | ||| |||| ||| |||||||||||  |||||||||| | |||||| | ||
Db       9755 CCGCCTCGGCCTCTCAAAGTGCTGGGATTACAGGTTTGAGCCACTGCGCCTGGCCTTTTT 9814

Qy       2431 TCCTTT 2436
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```
                |  |||
Db       9815 TTTTTT 9820


RESULT 4
PCT-US95-07201-43
; Sequence 43, Application PC/TUS9507201
;  GENERAL INFORMATION:
;    APPLICANT:  Chader, Gerald J.; Becerra, Sofia
;    APPLICANT:  Patricia; Schwartz, Joan P.;
;    APPLICANT:  Taniwaki, Takayuki
;    TITLE OF INVENTION:  PIGMENT EPITHELIUM
;    TITLE OF INVENTION:  DERIVED FACTOR: CHARACTERIZATION GENOMIC
;    TITLE OF INVENTION:  ORGANIZATION AND SEQUENCE OF THE PEDF GENE
;    NUMBER OF SEQUENCES:  43
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Morgan & Finnegan, L.L.P.
;      STREET:  345 Park Avenue
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy Disk
;      COMPUTER:  IBM PC Compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  WORDPERFECT 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US95/07201
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/367,841
;      FILING DATE:  30-DEC-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/257,963
;      FILING DATE:  07-JUN-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/952,796
;      FILING DATE:  24-SEP-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  DOROTHY R. AUTH
;      REGISTRATION NUMBER:  36434
;      REFERENCE/DOCKET NUMBER:  20264126PCT
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 758-4800
;      TELEFAX:  (212) 751-6849
;  INFORMATION FOR SEQ ID NO:  43:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  22481 Base Pairs
;      TYPE:  Nucleic Acid
;      STRANDEDNESS:  Double
;      TOPOLOGY:  Unknown
;    MOLECULE TYPE:  Genomic DNA
;    FEATURE:
;      NAME/KEY:  Pl-147
;      LOCATION:
;      IDENTIFICATION METHOD:
;      OTHER INFORMATION:  full length genomic
;      OTHER INFORMATION:  sequence for PEDF plus flanking sequences.
PCT-US95-07201-43

  Query Match             7.8%;  Score 214.8;  DB 5;  Length 22481;
  Best Local Similarity   76.5%;  Pred. No. 1.5e-47;
  Matches  280;  Conservative    0;  Mismatches   77;  Indels    9;  Gaps    1;

Qy       2080 GAGAAGGGGTCGGGGGTGGTGGTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATT 2139
             | |  |||| |  |||  | ||  |    ||    |   | |   ||| ||||||| ||
Db       9455 GTGTTGGGGGCCAGGGCAGGGGAGACAACGCTGTTCAGATTCTACATTTTTTTTTCCTTT 9514

Qy       2140 ATTATTGTTTTTTAAGACAGAATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGA 2199
               || || |||||| |||  || ||| |  ||| ||||||| |||||||||||||| |||
Db       9515 TTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTTGCCCAGCCTGGAGTGCAGTGGCGCGA 9574
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Qy       2200 T---------CTGCAAACTCCGCCTCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCC 2250
             |         |||||| |||| | |||||| |||||||||||||| |||||| ||||||||
Db       9575 TCTCAGCTCACTGCAACCTCCACTTCCTGGATTCAAGTGATTCTCCTGCCTTAGCCTCCC 9634

Qy       2251 GAGTAGCTGGGATTACAGGCACGCACCACCACACCTGGCTAATTTTTGTACTTTTAGTAG 2310
              |||||||||||||||||||| || |||||||||| |||||||||||||| |||||||||
Db       9635 AAGTAGCTGGGATTACAGGCATGCGCCACCACACCCGGCTAATTTTTGTATTTTTAGTAG 9694

Qy       2311 AGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAATGAGCCTC 2370
             ||||||||||||  |||||||||||||||| ||||||  ||||||||||||||   ||| | |
Db       9695 AGATGGGGTTTCTCCATGTTGGCCAGGATGGTCTCAAACTCCTGACCTCAGGTGATCTAC 9754

Qy       2371 CTGCTTCAGTCTCCCAAATTGCCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATT 2430
             | || || | ||| |||| ||| ||||||||||   ||||||||| | |||||| | ||
Db       9755 CCGCCTCGGCCTCTCAAAGTGCTGGGATTACAGGTTTGAGCCACTGCGCCTGGCCTTTTT 9814

Qy       2431 TCCTTT 2436
             |  |||
Db       9815 TTTTTT 9820


RESULT 5
US-09-875-223-2
; Sequence 2, Application US/09875223
; Patent No. 6391850
; GENERAL INFORMATION:
;  APPLICANT: No. 6391850thwestern University
;  APPLICANT:  No. 63918501 Bouck
;  APPLICANT:  David Dawson
;  APPLICANT:  Paul Gillis
;  TITLE OF INVENTION: Methods and Compositions for Inhibiting Angiogenesis
;  FILE REFERENCE: 0290-23U3
;  CURRENT APPLICATION NUMBER: US/09/875,223
;  CURRENT FILING DATE:  2001-06-06
;  PRIOR APPLICATION NUMBER: US 09/122,079
;  PRIOR FILING DATE: 1998-07-23
;  PRIOR APPLICATION NUMBER: PCT/US98/15228
;  PRIOR FILING DATE: 1998-07-23
;  PRIOR APPLICATION NUMBER: US 08/899,304
;  PRIOR FILING DATE: 1997-07-23
;  NUMBER OF SEQ ID NOS: 2
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 22484
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: Unsure
;   LOCATION: 1...22484
;   OTHER INFORMATION: "n" means either a, c, t, or g
US-09-875-223-2

  Query Match             7.8%;  Score 214.8;  DB 4;  Length 22484;
  Best Local Similarity   76.5%;  Pred. No. 1.5e-47;
  Matches  280;  Conservative    0;  Mismatches   77;  Indels    9;  Gaps    1;

Qy       2080 GAGAAGGGGTCGGGGGTGGTGGTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATT 2139
             | |  |||| |  |||  | ||  |    ||     |   |  |  ||| ||||||| ||
Db       9455 GTGTTGGGGGCCAGGGCAGGGGAGACAACGCTGTTCAGATTCTACATTTTTTTTTCCTTT 9514

Qy       2140 ATTATTGTTTTTTAAGACAGAATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGA 2199
               || || |||||| |||  || ||| |  ||| |||||||  ||||||||||||||| |||
Db       9515 TTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTTGCCCAGCCTGGAGTGCAGTGGCGCGA 9574

Qy       2200 T---------CTGCAAACTCCGCCTCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCC 2250
             |         |||||| |||| | |||||| |||||||||||||| |||||| ||||||||
Db       9575 TCTCAGCTCACTGCAACCTCCACTTCCTGGATTCAAGTGATTCTCCTGCCTTAGCCTCCC 9634

Qy       2251 GAGTAGCTGGGATTACAGGCACGCACCACCACACCTGGCTAATTTTTGTACTTTTAGTAG 2310
              |||||||||||||||||||| || |||||||||| |||||||||||||| |||||||||
Db       9635 AAGTAGCTGGGATTACAGGCATGCGCCACCACACCCGGCTAATTTTTGTATTTTTAGTAG 9694

Qy       2311 AGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAATGAGCCTC 2370
             ||||||||||||  |||||||||||||||| ||||||  ||||||||||||||   ||| | |
Db       9695 AGATGGGGTTTCTCCATGTTGGCCAGGATGGTCTCAAACTCCTGACCTCAGGTGATCTAC 9754

Qy       2371 CTGCTTCAGTCTCCCAAATTGCCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATT 2430
             | || || | ||| |||| ||| ||||||||||   ||||||||| | |||||| | ||
Db       9755 CCGCCTCGGCCTCTCAAAGTGCTGGGATTACAGGTTTGAGCCACTGCGCCTGGCCTTTTT 9814

Qy       2431 TCCTTT 2436
             |  |||
Db       9815 TTTTTT 9820


RESULT 6
US-09-875-114-2
; Sequence 2, Application US/09875114
; Patent No. 6670333
; GENERAL INFORMATION:
;  APPLICANT: No. 6670333thwestern University
;  APPLICANT:  No. 66703331 Bouck
;  APPLICANT:  David Dawson
;  APPLICANT:  Paul Gillis
;  TITLE OF INVENTION: Methods and Compositions for Inhibiting Angiogenesis
;  FILE REFERENCE: 0290-23U2
;  CURRENT APPLICATION NUMBER: US/09/875,114
;  CURRENT FILING DATE:  2001-06-06
;  PRIOR APPLICATION NUMBER: US 09/122,079
;  PRIOR FILING DATE: 1998-07-23
;  PRIOR APPLICATION NUMBER: PCT/US98/15228
;  PRIOR FILING DATE: 1998-07-23
;  PRIOR APPLICATION NUMBER: US 08/899,304
;  PRIOR FILING DATE: 1997-07-23
;  NUMBER OF SEQ ID NOS: 2
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 22484
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: Unsure
;   LOCATION: 1...22484
;   OTHER INFORMATION: "n" means either a, c, t, or g
US-09-875-114-2

  Query Match             7.8%;  Score 214.8;  DB 4;  Length 22484;
  Best Local Similarity   76.5%;  Pred. No. 1.5e-47;
  Matches  280;  Conservative    0;  Mismatches   77;  Indels    9;  Gaps    1;

Qy       2080 GAGAAGGGGTCGGGGGTGGTGGTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATT 2139
             | |  |||| |  |||  | ||  |    ||     |   |  |  ||| ||||||| ||
Db       9455 GTGTTGGGGGCCAGGGCAGGGGAGACAACGCTGTTCAGATTCTACATTTTTTTTTCCTTT 9514

Qy       2140 ATTATTGTTTTTTAAGACAGAATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGA 2199
               || || |||||| |||  || ||| |  ||| |||||||  ||||||||||||||| |||
Db       9515 TTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTTGCCCAGCCTGGAGTGCAGTGGCGCGA 9574

Qy       2200 T---------CTGCAAACTCCGCCTCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCC 2250
             |         |||||| |||| | |||||| |||||||||||||| |||||| ||||||||
Db       9575 TCTCAGCTCACTGCAACCTCCACTTCCTGGATTCAAGTGATTCTCCTGCCTTAGCCTCCC 9634

Qy       2251 GAGTAGCTGGGATTACAGGCACGCACCACCACACCTGGCTAATTTTTGTACTTTTAGTAG 2310
              |||||||||||||||||||| || |||||||||| |||||||||||||| |||||||||
Db       9635 AAGTAGCTGGGATTACAGGCATGCGCCACCACACCCGGCTAATTTTTGTATTTTTAGTAG 9694

Qy       2311 AGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAATGAGCCTC 2370
             ||||||||||||  |||||||||||||||| ||||||  ||||||||||||||   ||| | |
Db       9695 AGATGGGGTTTCTCCATGTTGGCCAGGATGGTCTCAAACTCCTGACCTCAGGTGATCTAC 9754

Qy       2371 CTGCTTCAGTCTCCCAAATTGCCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATT 2430
             | || || | ||| |||| ||| ||||||||||   ||||||||| | |||||| | ||
Db       9755 CCGCCTCGGCCTCTCAAAGTGCTGGGATTACAGGTTTGAGCCACTGCGCCTGGCCTTTTT 9814

Qy       2431 TCCTTT 2436
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                |  |||
Db       9815 TTTTTT 9820


RESULT 7
US-08-520-373D-4
; Sequence 4, Application US/08520373D
; Patent No. 6451763
; GENERAL INFORMATION:
;  APPLICANT: Tombran-Tink, Joyce
;  APPLICANT:  Steele, Fintan R
;  APPLICANT:  Chader, Gerald J
;  APPLICANT:  Becerra, Sofia P
;  APPLICANT:  Johnson, Lincoln V
;  APPLICANT:  Rodriguez, Ignacio R
;  TITLE OF INVENTION: RETINAL PIGMENTED EPITHELIUM DERIVED NEUROTROPIC FACTOR
;  FILE REFERENCE: 2026-4203US1
;  CURRENT APPLICATION NUMBER: US/08/520,373D
;  CURRENT FILING DATE:  1995-08-29
;  PRIOR APPLICATION NUMBER: 08/377,710
;  PRIOR FILING DATE: 1995-01-25
;  PRIOR APPLICATION NUMBER: 08/279,979
;  PRIOR FILING DATE: 1994-07-25
;  PRIOR APPLICATION NUMBER: 07/894,215
;  PRIOR FILING DATE: 1992-06-04
;  PRIOR APPLICATION NUMBER: 07/952,796
;  PRIOR FILING DATE: 1992-09-24
;  NUMBER OF SEQ ID NOS: 34
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
;   LENGTH: 14581
;   TYPE: DNA
;   ORGANISM: HUMAN
;   FEATURE:
;   OTHER INFORMATION: mRNA: 6683; EXON: 6683-6790; EXON 11584-11675;
;   OTHER INFORMATION: EXON: 14539-14581; INTRON: 6791-11583; INTRON:
;   OTHER INFORMATION: 11676-14538; CDS: 11584-11675; 14539-14580
US-08-520-373D-4

  Query Match             7.8%;  Score 214.6;  DB 4;  Length 14581;
  Best Local Similarity   77.0%;  Pred. No. 1.3e-47;
  Matches  278;  Conservative    0;  Mismatches   74;  Indels    9;  Gaps    1;

Qy       2085 GGGGTCGGGGGTGGTGGTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTAT 2144
             |||| |  |||  | ||  |    ||     |   | |   ||| ||||||| || || |
Db       9471 GGGGGCCAGGGCAGGGGAGACAACGCTGTTCAGATTCTACATTTTTTTTTTCCTTTTTTT 9530

Qy       2145 TGTTTTTTAAGACAGAATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGAT---- 2200
             | |||||| |||  || ||| |  ||| ||||||| ||||||||||||||| ||||
Db       9531 TTTTTTTTGAGATGGAGTCTTGCTCTGTTGCCCAGCCTGGAGTGCAGTGGCGCGATCTCA 9590

Qy       2201 -----CTGCAAACTCCGCCTCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTA 2255
                  |||||| |||| | |||||| |||||||||||| |||||| |||||||| ||||
Db       9591 GCTCACTGCAACCTCCACTTCCTGGATTCAAGTGATTCTCCTGCCTTAGCCTCCCAAGTA 9650

Qy       2256 GCTGGGATTACAGGCACGCACCACCACACCTGGCTAATTTTTGTACTTTTAGTAGAGATG 2315
             |||||||||||||||| || |||||||||| |||||||||||||| ||||||||||||||
Db       9651 GCTGGGATTACAGGCATGCGCCACCACACCCGGCTAATTTTTGTATTTTTAGTAGAGATG 9710

Qy       2316 GGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCT 2375
             ||||||| |||||||||||||| ||||||  |||||||||||||  ||| |  || ||
Db       9711 GGGTTTCTCCATGTTGGCCAGGATGGTCTCAAACTCCTGACCTCAGGTGATCTACCCGCC 9770

Qy       2376 TCAGTCTCCCAAATTGCCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTT 2435
             || | ||| |||| ||| |||||||||| |||||||||| | |||||| | |||  ||
Db       9771 TCGGCCTCTCAAAGTGCTGGGATTACAGGTTTGAGCCACTGCGCCTGGCCTTTTTTTTTT 9830

Qy       2436 T 2436
             |
Db       9831 T 9831


RESULT 8
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```
US-09-009-217-11/c
; Sequence 11, Application US/09009217
; Patent No. 6132729
;  GENERAL INFORMATION:
;    APPLICANT:  Thorpe, Philip E.
;    APPLICANT:  King, Steven W.
;    APPLICANT:  Gao, Boning
;    TITLE OF INVENTION:  COMBINED TISSUE FACTOR AND
;    TITLE OF INVENTION:  CHEMOTHERAPEUTIC METHODS AND COMPOSITIONS FOR COAGULATION
;    TITLE OF INVENTION:  AND TUMOR TREATMENT
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Arnold, White & Durkee
;      STREET:  P.O. Box 4433
;      CITY:  Houston
;      STATE:  Texas
;      COUNTRY:  USA
;      ZIP:  77210
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/009,217
;      FILING DATE:  Concurrently Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/042,427
;      FILING DATE:  27-MAR-1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/036,205
;      FILING DATE:  27-JAN-1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/035,920
;      FILING DATE:  22-JAN-1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hibler, David W.
;      REGISTRATION NUMBER:  41,071
;      REFERENCE/DOCKET NUMBER:  UTSD:536
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  512/418-3000
;      TELEFAX:  512/474-7577
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  13865 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-09-009-217-11

  Query Match             7.7%;  Score 213;  DB 3;  Length 13865;
  Best Local Similarity   78.6%;  Pred. No. 3.5e-47;
  Matches  271;  Conservative    0;  Mismatches   65;  Indels    9;  Gaps    1;

Qy       2121 TTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGAATCTCGTGCTGCTGCCCAGG 2180
             ||| |||| ||| |   ||     ||  ||||| ||||||| |||||  |||   ||||||
Db       8704 TTTCTTTTTTTTCTTTCTTTCCCTTTCTTTTTTAGACAGAGTCTCGCTCTGTCACCCAGG 8645

Qy       2181 CTGGAGTGCAGTGGCACGAT---------CTGCAAACTCCGCCTCCTGGGTTCAAGTGAT 2231
             | |||||||||||||| | ||          ||||||  |||| || ||||||||  |||||||
Db       8644 CCGGAGTGCAGTGGCGCAATCTCAGTTCACTGCAACCTCCTCCACCTGGGTCGAAGTGAT 8585

Qy       2232 TCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACCACACCTGGCTA 2291
             ||| ||||||||||||||| |||||||||||||||||||| ||| |||||  ||||||||
Db       8584 TCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCCACAACCACGCCTGGCTA 8525

Qy       2292 ATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTC 2351
             |||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8524 ATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTC 8465

Qy       2352 CTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTACAGGCATGAGC 2411
             |||||||||| ||| || || || | ||  ||||||| | | | ||||||||||| ||||
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Db       8464 CTGACCTCAAGTGATCCACCCGCCTTAGCATCCCAAAGTTCTGAGATTACAGGCACGAGC 8405

Qy       2412 CACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTT 2456
             ||| || |  |||   ||||||| ||   |   | ||| | ||
Db       8404 CACCATGCCCAGCCTCTTTTCCTTATAATTTTCTTAATAACATTT 8360


RESULT 9
US-09-009-656-11/c
; Sequence 11, Application US/09009656
; Patent No. 6132730
;  GENERAL INFORMATION:
;    APPLICANT:  Thorpe, Philip E.
;    APPLICANT:  King, Steven W.
;    APPLICANT:  Gao, Boning
;    TITLE OF INVENTION:  COMBINED TISSUE FACTOR AND FACTOR VIIa
;    TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR COAGULATION AND TUMOR
;    TITLE OF INVENTION:  TREATMENT
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Arnold, White & Durkee
;      STREET:  P.O. Box 4433
;      CITY:  Houston
;      STATE:  Texas
;      COUNTRY:  USA
;      ZIP:  77210
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/009,656
;      FILING DATE:  Concurrently Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/042,427
;      FILING DATE:  27-MAR-1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/036,205
;      FILING DATE:  27-JAN-1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/035,920
;      FILING DATE:  22-JAN-1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hibler, David W.
;      REGISTRATION NUMBER:  41,071
;      REFERENCE/DOCKET NUMBER:  UTSD:537
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  512/418-3000
;      TELEFAX:  512/474-7577
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  13865 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-09-009-656-11

  Query Match             7.7%;  Score 213;  DB 3;  Length 13865;
  Best Local Similarity   78.6%;  Pred. No. 3.5e-47;
  Matches  271;  Conservative    0;  Mismatches   65;  Indels    9;  Gaps    1;

Qy       2121 TTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGAATCTCGTGCTGCTGCCCAGG 2180
             ||| |||| ||| |   ||    ||  ||||| |||||||| |||||  |||   ||||||
Db       8704 TTTCTTTTTTTTTCTTTCTTTCCCTTTCTTTTTTAGACAGAGTCTCGCTCTGTCACCCAGG 8645

Qy       2181 CTGGAGTGCAGTGGCACGAT---------CTGCAAACTCCGCCTCCTGGGTTCAAGTGAT 2231
             | ||||||||||||| | ||         ||||| |||| || |||||||  |||||||
Db       8644 CCGGAGTGCAGTGGCGCAATCTCAGTTCACTGCAACCTCCTCCACCTGGGTCGAAGTGAT 8585

Qy       2232 TCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACCACACCTGGCTA 2291
             ||| |||||||||||||| |||||||||||||||||||| ||| ||||| ||||||||
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Db       8584 TCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCCACAACCACGCCTGGCTA 8525

Qy       2292 ATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTC 2351
             |||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       8524 ATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTC 8465

Qy       2352 CTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTACAGGCATGAGC 2411
             |||||||||| ||| || || || | ||  |||||||  | | | ||||||||||| ||||
Db       8464 CTGACCTCAAGTGATCCACCCGCCTTAGCATCCCAAAGTTCTGAGATTACAGGCACGAGC 8405

Qy       2412 CACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTT 2456
             |||  || |  |||   |||||||  ||   |   | ||| | ||
Db       8404 CACCATGCCCAGCCTCTTTTCCTTATAATTTTCTTAATAACATTT 8360


RESULT 10
US-09-435-739-42/c
; Sequence 42, Application US/09435739
; Patent No. 6664105
; GENERAL INFORMATION:
;  APPLICANT: Pecker, Iris
;  APPLICANT:  Vlodavsky, Israel
;  APPLICANT:  Feinstein, Elena
;  TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY A
;  TITLE OF INVENTION:  EXPRESSION OF SAME IN GENETICALLY MODIFIED CELLS
;  FILE REFERENCE: 00/20454
;  CURRENT APPLICATION NUMBER: US/09/435,739
;  CURRENT FILING DATE:  2001-06-05
;  NUMBER OF SEQ ID NOS: 47
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 42
;   LENGTH: 44848
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-435-739-42

  Query Match             7.6%;  Score 209.8;  DB 4;  Length 44848;
  Best Local Similarity   78.0%;  Pred. No. 5e-46;
  Matches  269;  Conservative    0;  Mismatches   67;  Indels    9;  Gaps    1;

Qy       2118 CTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGAATCTCGTGCTGCTGCCC 2177
             | ||| ||||| | ||| | ||  | || |||||| |||||||  | | || |||  ||||
Db      21494 CCATTCTTTTTTTCTTTTCTTTTCTCTTTTTTTTTGAGACAGAGTATTGTTCTGTCGCCC 21435

Qy       2178 AGGCTGGAGTGCAGTGGCACGAT---------CTGCAAACTCCGCCTCCTGGGTTCAAGT 2228
             |||||||||| || ||||| |||          |||||| |||| ||||| ||||||||||
Db      21434 AGGCTGGAGTACAATGGCATGATCTTGGCTCACTGCAACCTCCACCTCCCGGGTTCAAGT 21375

Qy       2229 GATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACCACACCTGG 2288
             |||||| |||||||  ||||   ||||||||||| ||||||    | ||||||  || ||
Db      21374 GATTCTCCTGCCTCCACCTCTGCAGTAGCTGGGACTACAGGTGGACGCCACCAAGCCCGG 21315

Qy       2289 CTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAA 2348
             ||| |||||||| |||||||| ||| ||||||||||  |||||||||||||||||||||||
Db      21314 CTAGTTTTTGTATTTTTAGTAAAGACGGGGTTTCACTGTGTTGGCCAGGCTGGTCTTGAA 21255

Qy       2349 CTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTACAGGCATG 2408
             |||||||| |||| ||| || ||||| |||| ||| |||| ||| ||||||||||| ||
Db      21254 CTCCTGACATCAAGTGATCCACCTGCCTCAGCCTCTCAAAGTGCTGGGATTACAGGCGTG 21195

Qy       2409 AGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGA 2453
             ||||||  |||||||| || | |||||||||   |||  || |
Db      21194 AGCCACCACGTCTGGCCACATCTACTTTAAAAAAAAAAACAAAAA 21150


RESULT 11
US-08-781-891-79/c
; Sequence 79, Application US/08781891
; Patent No. 6090620
;  GENERAL INFORMATION:
;    APPLICANT:  Fu, Ying-Hui
;    APPLICANT:  Yu, Chang-En
;    APPLICANT:  Oshima, Junko
```

```
;    APPLICANT: Mulligan, John T.
;    APPLICANT:  Schellenberg, Gerald D.
;    TITLE OF INVENTION:  GENE AND GENE PRODUCTS RELATED TO
;    TITLE OF INVENTION:  WERNER'S SYNDROME
;    NUMBER OF SEQUENCES:  209
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SEED and BERRY LLP
;      STREET:  6300 Columbia Center, 701 Fifth Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98104-7092
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/781,891
;      FILING DATE:  27-DEC-1996
;      CLASSIFICATION:  800
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  No. 6090620tenburg Ph.D., Carol
;      REGISTRATION NUMBER:  39,317
;      REFERENCE/DOCKET NUMBER:  240052.419
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206) 622-4900
;      TELEFAX:  (206) 682-6031
;  INFORMATION FOR SEQ ID NO:  79:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  87350 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-08-781-891-79

  Query Match             7.6%;  Score 209.2;  DB 3;  Length 87350;
  Best Local Similarity   74.9%;  Pred. No. 1.1e-45;
  Matches  278;  Conservative    0;  Mismatches   84;  Indels    9;  Gaps    1;

Qy       2069 CCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTGGTAAAGTAGCACAACTACTATTTTTTTT 2128
             | |  |||  || | | |    |    |||||          | |||  |   .  ||||| |
Db      42349 CAACTCCCAGGGTGCAAGCTCCATTCGTGGTAAGTGCCCTGTACAGATGTACCTTTTTAT 42290

Qy       2129 CTTTTTCCATTATTATTGTTTTTTAAGACAGAATCTCGTGCTGCTGCCCAGGCTGGAGTG 2188
             || |||   || || || |||||  |||||| |||||  |||   ||||||||| ||||
Db      42289 CTCTTTTTTTTTTTTTTTTTTTNGAGACAGAGTCTCGCTCTGTCTCCCAGGCTGAAGTG 42230

Qy       2189 CAGTGGCACGAT---------CTGCAAACTCCGCCTCCTGGGTTCAAGTGATTCTTCTGC 2239
             |||||||| ||          |||||| |||| ||||||||||||||  ||||| ||||
Db      42229 CAGTGGCACAATCTTGACTCACTGCAACCTCCACCTCCTGGGTTCAAGCAATTCTCCTGC 42170

Qy       2240 CTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACCACACCTGGCTAATTTTTGT 2299
             |||||||||| || |||||||||||||||||| || |||||| ||  ||||||||||||
Db      42169 CTCAGCCTCCTGAATAGCTGGGATTACAGGCACCCAACACCACGCCCAGCTAATTTTTGT 42110

Qy       2300 ACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTC 2359
             |||||||||||| | || |||||| ||||||||||||||||||||||||||||||||||||
Db      42109 ACTTTTAGTAGAAACGGAGTTTCATCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTC 42050

Qy       2360 AAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTACAGGCATGAGCCACTGTGT 2419
             || ||| |  ||||| || | |||||||| ||| ||||||||||| ||||||||  ||
Db      42049 AAGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCATGC 41990

Qy       2420 CTGGCCCTATT 2430
             |  ||  | ||
Db      41989 CCAGCTTTTTT 41979


RESULT 12
US-09-618-166-79/c
; Sequence 79, Application US/09618166
; Patent No. 6583112
;   GENERAL INFORMATION:
;        APPLICANT: Fu, Ying-Hui
;                   Yu, Chang-En
;                   Oshima, Junko
;                   Mulligan, John T.
;                   Schellenberg, Gerald D.
;        TITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO
;                            WERNER'S SYNDROME
;        NUMBER OF SEQUENCES: 209
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Seed Intellectual Property Law Group
;             STREET: 701 Fifth Avenue, Suite 6300
;             CITY: Seattle
;             STATE: Washington
;             COUNTRY: USA
;             ZIP: 98104-7092
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/618,166
;             FILING DATE: 17-Jul-2000
;             CLASSIFICATION: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: McMasters, David D.
;             REGISTRATION NUMBER: 33,963
;             REFERENCE/DOCKET NUMBER: 240052.419C1
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (206) 622-4900
;             TELEFAX: (206) 682-6031
;   INFORMATION FOR SEQ ID NO: 79:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 87350 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        SEQUENCE DESCRIPTION: SEQ ID NO: 79:
US-09-618-166-79

  Query Match             7.6%;  Score 209.2;  DB 4;  Length 87350;
  Best Local Similarity   74.9%;  Pred. No. 1.1e-45;
  Matches  278;  Conservative    0;  Mismatches   84;  Indels    9;  Gaps    1;

Qy       2069 CCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTGGTAAAGTAGCACAACTACTATTTTTTTT 2128
             | |  |||  || | | |    |    |||||          | |||  |   .  ||||| |
Db      42349 CAACTCCCAGGGTGCAAGCTCCATTCGTGGTAAGTGCCCTGTACAGATGTACCTTTTTAT 42290

Qy       2129 CTTTTTCCATTATTATTGTTTTTTAAGACAGAATCTCGTGCTGCTGCCCAGGCTGGAGTG 2188
             || |||   || || || |||||  |||||| |||||  |||   ||||||||| ||||
Db      42289 CTCTTTTTTTTTTTTTTTTTTTNGAGACAGAGTCTCGCTCTGTCTCCCAGGCTGAAGTG 42230

Qy       2189 CAGTGGCACGAT---------CTGCAAACTCCGCCTCCTGGGTTCAAGTGATTCTTCTGC 2239
             |||||||| ||          |||||| |||| ||||||||||||||  ||||| ||||
Db      42229 CAGTGGCACAATCTTGACTCACTGCAACCTCCACCTCCTGGGTTCAAGCAATTCTCCTGC 42170

Qy       2240 CTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACCACACCTGGCTAATTTTTGT 2299
             |||||||||| || |||||||||||||||||| || |||||| ||  ||||||||||||
Db      42169 CTCAGCCTCCTGAATAGCTGGGATTACAGGCACCCAACACCACGCCCAGCTAATTTTTGT 42110

Qy       2300 ACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTC 2359
             |||||||||||| | || |||||| ||||||||||||||||||||||||||||||||||||
Db      42109 ACTTTTAGTAGAAACGGAGTTTCATCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTC 42050

Qy       2360 AAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTACAGGCATGAGCCACTGTGT 2419
             || ||| |  ||||| || | |||||||| ||| ||||||||||| ||||||||  ||
Db      42049 AAGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCATGC 41990

Qy       2420 CTGGCCCTATT 2430
             |  ||  | ||
Db      41989 CCAGCTTTTTT 41979
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RESULT 13
US-09-791-211-3/c
; Sequence 3, Application US/09791211
; Patent No. 6448080
; GENERAL INFORMATION:
; APPLICANT: Donna T. Ward
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF WRN EXPRESSION
; FILE REFERENCE: RTS-0205
; CURRENT APPLICATION NUMBER: US/09/791,211
; CURRENT FILING DATE: 2001-02-23
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 3
; LENGTH: 87543
; TYPE: DNA
; ORGANISM: Homo sapiens
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;   OTHER INFORMATION:
US-09-791-211-3

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  Best Local Similarity   74.9%;  Pred. No. 1.1e-45;
  Matches  278;  Conservative    0;  Mismatches   84;  Indels    9;  Gaps    1;

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Db      42542 CAACTCCCAGGGTGCAAGCTCCATTCGTGGTAAGTGCCCTGTACAGATGTACCTTTTTAT 42483

Qy       2129 CTTTTTCCATTATTATTGTTTTTTAAGACAGAATCTCGTGCTGCTGCCCAGGCTGGAGTG 2188
              || |||   || || || |||||  ||||||| |||||  |||   |||||||| ||||
Db      42482 CTCTTTTTTTTTTTTTTTTTTTNGAGACAGAGTCTCGCTCTGTCTCCCAGGCTGAAGTG 42423

Qy       2189 CAGTGGCACGAT---------CTGCAAACTCCGCCTCCTGGGTTCAAGTGATTCTTCTGC 2239
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Db      42422 CAGTGGCACAATCTTGACTCACTGCAACCTCCACCTCCTGGGTTCAAGCAATTCTCCTGC 42363

Qy       2240 CTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACCACACCTGGCTAATTTTTGT 2299
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Qy       2300 ACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTC 2359
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Qy       2420 CTGGCCCTATT 2430
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RESULT 14
US-09-078-294-9
; Sequence 9, Application US/09078294
; Patent No. 6265211
; GENERAL INFORMATION:
;  APPLICANT: Choo, Kong-Hong Andy
;  APPLICANT: Du Sart, Desiree
;  APPLICANT: Cancilla, Michael R.
;  TITLE OF INVENTION: A NOVEL NUCLEIC ACID MOLECULE
;  FILE REFERENCE: Davies Col
;  CURRENT APPLICATION NUMBER: US/09/078,294
;  CURRENT FILING DATE: 1998-05-13
;  NUMBER OF SEQ ID NOS: 29
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
;   LENGTH: 1701
;   TYPE: DNA
;   ORGANISM: BAC-F2 contig 5
US-09-078-294-9

  Query Match             7.6%;  Score 207.8;  DB 3;  Length 1701;
  Best Local Similarity   69.4%;  Pred. No. 2.7e-46;
  Matches  345;  Conservative    0;  Mismatches  137;  Indels   15;  Gaps    4;

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Qy       2175 CCCAGGCTGGAGTGCAGTGGCACGAT---------CTGCAAACTCCGCCTCCTGGGTTCA 2225
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Db       1143 CCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCTCACTGCAACCTCTGCCTCCCGGGTTCA 1202

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Qy       2286 TGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTT 2345
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Qy       2584 ACATAATTTGCCGGTGT 2600
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Db       1559 TCCTTCTGTTTTGTTGT 1575


RESULT 15
US-09-801-861-3
; Sequence 3, Application US/09801861
; Patent No. 6492154
; GENERAL INFORMATION:
;  APPLICANT:  YAN, Chunhua et al.
;  TITLE OF INVENTION:  ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
;  TITLE OF INVENTION:  ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
;  TITLE OF INVENTION:  THEREOF
;  FILE REFERENCE:  CL001098
;  CURRENT APPLICATION NUMBER: US/09/801,861
;  CURRENT FILING DATE:  2001-03-09
;  NUMBER OF SEQ ID NOS:  10
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 3
;   LENGTH: 53332
;   TYPE: DNA
;   ORGANISM: Human
US-09-801-861-3

  Query Match             7.6%;  Score 207.8;  DB 4;  Length 53332;
  Best Local Similarity   79.8%;  Pred. No. 1.9e-45;
  Matches  261;  Conservative    0;  Mismatches   57;  Indels    9;  Gaps    1;

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Db      25244 TTTTAATTTTATTTTTATTTATTTATTTATTTTTAGACGGGAGTCTCGCTCTGCTGCCCA 25303

Qy       2179 GGCTGGAGTGCAGTGGCACGAT---------CTGCAAACTCCGCCTCCTGGGTTCAAGTG 2229
              |||||||||||||||| | |          ||||||  |||||| |||||||||||| |
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Qy       2230 ATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACCACACCTGGC 2289
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Qy       2290 TAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAAC 2349
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Qy       2350 TCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATTACAGGCATGA 2409
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Job time : 244 secs

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: September 13, 2004, 14:24:32 ; Search time 1230 Seconds
(without alignments)
11245.249 Million cell updates/sec

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Perfect score: 2749
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Gapop 10.0 , Gapext 1.0

Searched: 3304383 seqs, 2515761380 residues

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Post-processing: Minimum Match 0%
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Listing first 1500 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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372	2747	99.9	2749	15	US-10-145-015-385	Sequence 385, App
373	2747	99.9	2749	15	US-10-145-090-385	Sequence 385, App
374	2747	99.9	2749	15	US-10-145-091-385	Sequence 385, App
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377	2747	99.9	2749	15	US-10-145-630-385	Sequence 385, App
378	2747	99.9	2749	15	US-10-145-747-385	Sequence 385, App
379	2747	99.9	2749	15	US-10-145-752-385	Sequence 385, App

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390	2747	99.9	2749	15	US-10-152-401-385	Sequence 385, App
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527	2747	99.9	2749	15	US-10-123-213-385	Sequence 385, App		600	2747	99.9	2749	16	US-10-219-538-516	Sequence 516, App
528	2747	99.9	2749	15	US-10-123-291-385	Sequence 385, App		601	2747	99.9	2749	16	US-10-147-528-385	Sequence 385, App
529	2747	99.9	2749	15	US-10-123-322-385	Sequence 385, App		602	2747	99.9	2749	16	US-10-145-093A-215	Sequence 215, App
530	2747	99.9	2749	15	US-10-123-771-385	Sequence 385, App		603	2747	99.9	2749	16	US-10-013-919A-215	Sequence 215, App
531	2747	99.9	2749	15	US-10-123-911-385	Sequence 385, App		604	2747	99.9	2749	16	US-10-013-920A-215	Sequence 215, App
532	2747	99.9	2749	15	US-10-124-823-385	Sequence 385, App		605	2747	99.9	2749	16	US-10-128-692A-385	Sequence 385, App
533	2747	99.9	2749	15	US-10-125-931-385	Sequence 385, App		606	2747	99.9	2749	16	US-10-140-927-385	Sequence 385, App
534	2747	99.9	2749	15	US-10-125-932-385	Sequence 385, App		607	2747	99.9	2749	17	US-10-147-536-385	Sequence 385, App
535	2747	99.9	2749	16	US-10-017-084A-215	Sequence 215, App		608	2747	99.9	2749	17	US-10-152-372-385	Sequence 385, App
536	2747	99.9	2749	16	US-10-123-913-385	Sequence 385, App		609	745.2	27.1	1060	13	US-10-302-172-222	Sequence 222, App
537	2747	99.9	2749	16	US-10-017-085A-215	Sequence 215, App		610	694.4	25.3	1111	17	US-10-467-595-74	Sequence 74, Appl
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539	2747	99.9	2749	16	US-10-137-867-385	Sequence 385, App		612	345.6	12.6	520	15	US-10-029-386-1283	Sequence 1283, Ap
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542	2747	99.9	2749	16	US-10-140-810-385	Sequence 385, App		615	218.6	8.0	11470	16	US-10-264-237-2859	Sequence 2859, Ap
543	2747	99.9	2749	16	US-10-140-863-385	Sequence 385, App	c	616	218.4	7.9	59588	15	US-10-017-161-2233	Sequence 2233, Ap
544	2747	99.9	2749	16	US-10-141-699-385	Sequence 385, App	c	617	218.4	7.9	59588	16	US-10-292-798-1879	Sequence 1879, Ap
545	2747	99.9	2749	16	US-10-141-703-385	Sequence 385, App	c	618	217.4	7.9	174448	13	US-10-087-192-148	Sequence 148, App
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547	2747	99.9	2749	16	US-10-141-757-385	Sequence 385, App	c	620	217	7.9	12149	15	US-10-091-504-2258	Sequence 2258, Ap
548	2747	99.9	2749	16	US-10-141-762-385	Sequence 385, App	c	621	217	7.9	12149	16	US-10-227-577-2258	Sequence 2258, Ap
549	2747	99.9	2749	16	US-10-142-428-385	Sequence 385, App	c	622	216.8	7.9	3613	13	US-10-027-632-261421	Sequence 261421,
550	2747	99.9	2749	16	US-10-142-429-385	Sequence 385, App	c	623	216.8	7.9	3613	13	US-10-027-632-261422	Sequence 261422,
551	2747	99.9	2749	16	US-10-142-884-385	Sequence 385, App	c	624	216.8	7.9	3613	16	US-10-027-632-261421	Sequence 261421,
552	2747	99.9	2749	16	US-10-143-027-385	Sequence 385, App	c	625	216.8	7.9	3613	16	US-10-027-632-261422	Sequence 261422,
553	2747	99.9	2749	16	US-10-143-115-385	Sequence 385, App	c	626	216.2	7.9	12879	17	US-10-304-098-4	Sequence 4, Appli
554	2747	99.9	2749	16	US-10-144-956-385	Sequence 385, App	c	627	216.2	7.9	392000	13	US-10-448-753-11	Sequence 11, Appl
555	2747	99.9	2749	16	US-10-144-958-385	Sequence 385, App	c	628	216.2	7.9	392000	15	US-10-027-983-11	Sequence 11, Appl
556	2747	99.9	2749	16	US-10-145-632-385	Sequence 385, App	c	629	216.2	7.9	465237	9	US-09-933-267A-1	Sequence 1, Appli
557	2747	99.9	2749	16	US-10-145-749-385	Sequence 385, App		630	216	7.9	44848	9	US-09-776-874A-42	Sequence 42, Appl
558	2747	99.9	2749	16	US-10-145-753-385	Sequence 385, App		631	216	7.9	44848	9	US-09-988-113-42	Sequence 42, Appl
559	2747	99.9	2749	16	US-10-145-871-385	Sequence 385, App		632	216	7.9	44848	15	US-10-341-582-42	Sequence 42, Appl
560	2747	99.9	2749	16	US-10-145-878-385	Sequence 385, App		633	216	7.9	44848	15	US-10-384-451-42	Sequence 42, Appl
561	2747	99.9	2749	16	US-10-146-794-385	Sequence 385, App		634	216	7.9	44848	15	US-10-384-450-42	Sequence 42, Appl
562	2747	99.9	2749	16	US-10-147-489-385	Sequence 385, App		635	216	7.9	44848	16	US-10-371-218A-42	Sequence 42, Appl
563	2747	99.9	2749	16	US-10-147-507-385	Sequence 385, App		636	216	7.9	44848	16	US-10-456-573-42	Sequence 42, Appl
564	2747	99.9	2749	16	US-10-147-535-385	Sequence 385, App		637	216	7.9	44848	17	US-10-785-116-42	Sequence 42, Appl
565	2747	99.9	2749	16	US-10-147-537-385	Sequence 385, App		638	216	7.9	174424	9	US-09-967-768A-314	Sequence 314, App
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568	2747	99.9	2749	16	US-10-152-400-385	Sequence 385, App		641	215	7.8	3224	13	US-10-027-632-113769	Sequence 113769,
569	2747	99.9	2749	16	US-10-153-585-385	Sequence 385, App		642	215	7.8	3224	16	US-10-027-632-113769	Sequence 113769,
570	2747	99.9	2749	16	US-10-157-780-385	Sequence 385, App	c	643	215	7.8	27154	10	US-09-764-891-8396	Sequence 8396, Ap
571	2747	99.9	2749	16	US-10-157-800-385	Sequence 385, App		644	215	7.8	100445	17	US-10-322-281-170	Sequence 170, App
572	2747	99.9	2749	16	US-10-157-801-385	Sequence 385, App		645	214.8	7.8	22484	9	US-09-875-114-2	Sequence 2, Appli
573	2747	99.9	2749	16	US-10-157-802-385	Sequence 385, App		646	214.8	7.8	22484	9	US-09-880-107-3341	Sequence 3341, Ap
574	2747	99.9	2749	16	US-10-158-784-385	Sequence 385, App		647	214.8	7.8	22484	17	US-10-450-826-103	Sequence 103, App
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577	2747	99.9	2749	16	US-10-139-963-385	Sequence 385, App		650	214.6	7.8	581	16	US-10-027-632-182759	Sequence 182759,
578	2747	99.9	2749	16	US-10-140-020-385	Sequence 385, App		651	214.6	7.8	581	16	US-10-027-632-182760	Sequence 182760,
579	2747	99.9	2749	16	US-10-140-023-385	Sequence 385, App		652	214.6	7.8	14581	15	US-10-216-373-4	Sequence 4, Appli
580	2747	99.9	2749	16	US-10-140-809-385	Sequence 385, App		653	214.4	7.8	101209	13	US-10-087-192-460	Sequence 460, App
581	2747	99.9	2749	16	US-10-140-865-385	Sequence 385, App	c	654	214	7.8	24318	17	US-10-322-281-504	Sequence 504, App
582	2747	99.9	2749	16	US-10-141-701-385	Sequence 385, App	c	655	213.8	7.8	72705	13	US-10-087-192-1966	Sequence 1966, Ap
583	2747	99.9	2749	16	US-10-141-754-385	Sequence 385, App		656	213.6	7.8	31703	16	US-10-085-117-172	Sequence 172, App
584	2747	99.9	2749	16	US-10-141-760-385	Sequence 385, App	c	657	213.4	7.8	1243	13	US-10-027-632-123618	Sequence 123618,
585	2747	99.9	2749	16	US-10-142-425-385	Sequence 385, App	c	658	213.4	7.8	1243	13	US-10-027-632-123619	Sequence 123619,
586	2747	99.9	2749	16	US-10-142-430-385	Sequence 385, App	c	659	213.4	7.8	1243	16	US-10-027-632-123618	Sequence 123618,
587	2747	99.9	2749	16	US-10-143-113-385	Sequence 385, App	c	660	213.4	7.8	1243	16	US-10-027-632-123619	Sequence 123619,
588	2747	99.9	2749	16	US-10-146-730-385	Sequence 385, App		661	213.2	7.8	96898	16	US-10-417-476-3	Sequence 3, Appli
589	2747	99.9	2749	16	US-10-146-792-385	Sequence 385, App	c	662	213.2	7.8	99957	12	US-09-997-722-298	Sequence 298, App
590	2747	99.9	2749	16	US-10-158-791-385	Sequence 385, App	c	663	213	7.7	13865	16	US-10-375-741-11	Sequence 11, Appl
591	2747	99.9	2749	16	US-10-143-026B-215	Sequence 215, App		664	213	7.7	256157	13	US-10-087-192-1204	Sequence 1204, Ap
592	2747	99.9	2749	16	US-10-156-843-385	Sequence 385, App		665	213	7.7	256157	17	US-10-322-281-776	Sequence 776, App
593	2747	99.9	2749	16	US-10-157-786-385	Sequence 385, App	c	666	212.8	7.7	601	9	US-09-818-656A-83	Sequence 83, Appl
594	2747	99.9	2749	16	US-10-013-918A-215	Sequence 215, App	c	667	212.8	7.7	690	13	US-10-027-632-110926	Sequence 110926,
595	2747	99.9	2749	16	US-10-013-928A-215	Sequence 215, App	c	668	212.8	7.7	690	16	US-10-027-632-110926	Sequence 110926,
596	2747	99.9	2749	16	US-10-162-522A-215	Sequence 215, App	c	669	212.4	7.7	76670	13	US-10-087-192-2050	Sequence 2050, Ap
597	2747	99.9	2749	16	US-10-013-923A-215	Sequence 215, App		670	212.2	7.7	585	13	US-10-027-632-216514	Sequence 216514,
598	2747	99.9	2749	16	US-10-013-925A-215	Sequence 215, App		671	212.2	7.7	585	16	US-10-027-632-216514	Sequence 216514,

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c 674	212	7.7	627	13	US-10-027-632-62063	Sequence 62063, A
c 675	212	7.7	627	13	US-10-027-632-309366	Sequence 309366,
c 676	212	7.7	627	13	US-10-027-632-309367	Sequence 309367,
c 677	212	7.7	627	16	US-10-027-632-59774	Sequence 59774, A
c 678	212	7.7	627	16	US-10-027-632-59775	Sequence 59775, A
c 679	212	7.7	627	16	US-10-027-632-62063	Sequence 62063, A
c 680	212	7.7	627	16	US-10-027-632-309366	Sequence 309366,
c 681	212	7.7	627	16	US-10-027-632-309367	Sequence 309367,
c 682	212	7.7	823	13	US-10-027-632-62075	Sequence 62075, A
c 683	212	7.7	823	16	US-10-027-632-62075	Sequence 62075, A
c 684	212	7.7	35236	13	US-10-087-192-370	Sequence 370, App
c 685	212	7.7	40394	17	US-10-741-601-5774	Sequence 5774, Ap
c 686	212	7.7	108316	16	US-10-292-798-1789	Sequence 1789, Ap
c 687	212	7.7	108317	15	US-10-017-161-2143	Sequence 2143, Ap
688	211.8	7.7	621	13	US-10-027-632-260328	Sequence 260328,
689	211.8	7.7	621	16	US-10-027-632-260328	Sequence 260328,
c 690	211.8	7.7	849	15	US-10-106-698-120	Sequence 120, App
c 691	211.6	7.7	17324	10	US-09-764-891-7727	Sequence 7727, Ap
c 692	211.6	7.7	40645	9	US-09-818-656A-3	Sequence 3, Appli
c 693	211.6	7.7	40645	14	US-10-216-441-3	Sequence 3, Appli
c 694	211.6	7.7	246144	16	US-10-085-117-226	Sequence 226, App
c 695	211.4	7.7	567	13	US-10-027-632-256439	Sequence 256439,
c 696	211.4	7.7	567	16	US-10-027-632-256439	Sequence 256439,
697	211.4	7.7	793	13	US-10-027-632-143047	Sequence 143047,
698	211.4	7.7	793	13	US-10-027-632-165653	Sequence 165653,
699	211.4	7.7	793	16	US-10-027-632-143047	Sequence 143047,
700	211.4	7.7	793	16	US-10-027-632-165653	Sequence 165653,
c 701	211.4	7.7	46589	13	US-10-087-192-1144	Sequence 1144, Ap
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703	211.2	7.7	50000	17	US-10-681-199-6	Sequence 6, Appli
704	211	7.7	758	13	US-10-027-632-124439	Sequence 124439,
705	211	7.7	758	16	US-10-027-632-124439	Sequence 124439,
706	211	7.7	1946	13	US-10-027-632-100143	Sequence 100143,
707	211	7.7	1946	16	US-10-027-632-100143	Sequence 100143,
708	211	7.7	99291	17	US-10-322-281-744	Sequence 744, App
c 709	211	7.7	285020	13	US-10-087-192-1666	Sequence 1666, Ap
c 710	211	7.7	300000	15	US-10-262-552-33	Sequence 33, Appl
c 711	211	7.7	300000	17	US-10-703-210-33	Sequence 33, Appl
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713	210.8	7.7	109906	13	US-10-235-192A-31	Sequence 31, Appl
c 714	210.6	7.7	1116	13	US-10-027-632-31138	Sequence 31138, A
c 715	210.6	7.7	1116	16	US-10-027-632-31138	Sequence 31138, A
c 716	210.6	7.7	3225	13	US-10-027-632-115939	Sequence 115939,
c 717	210.6	7.7	3225	13	US-10-027-632-115940	Sequence 115940,
c 718	210.6	7.7	3225	13	US-10-027-632-115941	Sequence 115941,
c 719	210.6	7.7	3225	16	US-10-027-632-115939	Sequence 115939,
c 720	210.6	7.7	3225	16	US-10-027-632-115940	Sequence 115940,
c 721	210.6	7.7	3225	16	US-10-027-632-115941	Sequence 115941,
c 722	210.4	7.7	10252	9	US-09-764-887-442	Sequence 442, App
c 723	210.4	7.7	10252	15	US-10-073-961-442	Sequence 442, App
c 724	210.4	7.7	94917	13	US-10-087-192-184	Sequence 184, App
725	210.4	7.7	174448	13	US-10-087-192-148	Sequence 148, App
726	210.2	7.6	1743	10	US-09-764-891-6056	Sequence 6056, Ap
727	210.2	7.6	1743	13	US-10-091-414-236	Sequence 236, App
728	210.2	7.6	1746	10	US-09-764-891-6057	Sequence 6057, Ap
729	210.2	7.6	1746	13	US-10-091-414-237	Sequence 237, App
730	210.2	7.6	5281	10	US-09-764-891-7789	Sequence 7789, Ap
731	210.2	7.6	5284	10	US-09-764-891-7788	Sequence 7788, Ap
c 732	210.2	7.6	19167	10	US-09-764-891-8028	Sequence 8028, Ap
733	210.2	7.6	32195	12	US-09-764-856-92	Sequence 92, Appl
734	210.2	7.6	32195	13	US-09-764-856-92	Sequence 92, Appl
735	210.2	7.6	32195	15	US-10-102-627-92	Sequence 92, Appl
736	210.2	7.6	46130	15	US-10-017-161-985	Sequence 985, App
c 737	210.2	7.6	55611	15	US-10-017-161-783	Sequence 783, App
738	210.2	7.6	73764	17	US-10-741-601-5616	Sequence 5616, Ap
c 739	210	7.6	32249	10	US-09-764-891-5759	Sequence 5759, Ap
c 740	210	7.6	65464	9	US-09-859-888-3	Sequence 3, Appli
741	210	7.6	113240	13	US-10-087-192-1852	Sequence 1852, Ap
c 742	209.8	7.6	40267	10	US-09-978-244A-25	Sequence 25, Appl
c 743	209.8	7.6	44848	9	US-09-776-874A-42	Sequence 42, Appl
c 744	209.8	7.6	44848	9	US-09-988-113-42	Sequence 42, Appl
c 745	209.8	7.6	44848	15	US-10-341-582-42	Sequence 42, Appl
c 746	209.8	7.6	44848	15	US-10-384-451-42	Sequence 42, Appl
c 747	209.8	7.6	44848	15	US-10-384-450-42	Sequence 42, Appl
c 748	209.8	7.6	44848	16	US-10-371-218A-42	Sequence 42, Appl
c 749	209.8	7.6	44848	16	US-10-456-573-42	Sequence 42, Appl
c 750	209.8	7.6	44848	17	US-10-785-116-42	Sequence 42, Appl
751	209.8	7.6	128668	13	US-10-087-192-340	Sequence 340, App
c 752	209.4	7.6	611	13	US-10-027-632-256	Sequence 256, App
c 753	209.4	7.6	611	16	US-10-027-632-256	Sequence 256, App
c 754	209.4	7.6	631	13	US-10-027-632-268896	Sequence 268896,
c 755	209.4	7.6	631	16	US-10-027-632-268896	Sequence 268896,
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c 757	209.4	7.6	809	13	US-10-027-632-29478	Sequence 29478, A
c 758	209.4	7.6	809	16	US-10-027-632-29477	Sequence 29477, A
c 759	209.4	7.6	809	16	US-10-027-632-29478	Sequence 29478, A
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c 761	209.2	7.6	558	13	US-10-027-632-288369	Sequence 288369,
c 762	209.2	7.6	558	16	US-10-027-632-288369	Sequence 288369,
c 763	209.2	7.6	572	13	US-10-027-632-248418	Sequence 248418,
c 764	209.2	7.6	572	16	US-10-027-632-248418	Sequence 248418,
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c 766	209	7.6	451	13	US-10-027-632-192743	Sequence 192743,
c 767	209	7.6	451	16	US-10-027-632-192743	Sequence 192743,
c 768	209	7.6	523	13	US-10-027-632-39525	Sequence 39525, A
c 769	209	7.6	523	13	US-10-027-632-39526	Sequence 39526, A
c 770	209	7.6	523	16	US-10-027-632-39525	Sequence 39525, A
c 771	209	7.6	523	16	US-10-027-632-39526	Sequence 39526, A
c 772	209	7.6	96595	12	US-10-052-482-232	Sequence 232, App
773	209	7.6	243390	17	US-10-322-281-462	Sequence 462, App
c 774	208.8	7.6	757	13	US-10-027-632-148398	Sequence 148398,
c 775	208.8	7.6	757	16	US-10-027-632-148398	Sequence 148398,
c 776	208.8	7.6	6275	11	US-09-984-429-298	Sequence 298, App
777	208.8	7.6	27411	13	US-10-087-192-940	Sequence 940, App
778	208.8	7.6	48436	9	US-09-927-602-38	Sequence 38, Appl
779	208.8	7.6	61468	16	US-10-085-117-292	Sequence 292, App
780	208.8	7.6	100762	17	US-10-322-696-154	Sequence 154, App
c 781	208.6	7.6	60815	13	US-10-087-192-52	Sequence 52, Appl
782	208.6	7.6	96595	12	US-09-997-722-262	Sequence 262, App
783	208.6	7.6	186391	13	US-10-087-192-136	Sequence 136, App
784	208.4	7.6	503	13	US-10-027-632-262443	Sequence 262443,
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787	208.4	7.6	4857	15	US-10-092-154-1929	Sequence 1929, Ap
788	208.4	7.6	10113	16	US-10-074-024-792	Sequence 792, App
789	208.4	7.6	11655	16	US-10-074-024-793	Sequence 793, App
c 790	208.4	7.6	49513	17	US-10-741-601-5613	Sequence 5613, Ap
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c 792	208.4	7.6	50000	17	US-10-681-199-7	Sequence 7, Appli
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794	208.4	7.6	174703	13	US-10-087-192-1336	Sequence 1336, Ap
c 795	208.2	7.6	2616	16	US-10-104-047-395	Sequence 395, App
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797	208.2	7.6	2974	16	US-10-027-632-114365	Sequence 114365,
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c 799	208.2	7.6	100267	13	US-10-240-425-1470	Sequence 1470, Ap
c 800	208.2	7.6	260209	15	US-10-265-071-23	Sequence 23, Appl
c 801	208.2	7.6	260209	15	US-10-025-966A-23	Sequence 23, Appl
c 802	208.2	7.6	439892	13	US-10-087-192-454	Sequence 454, App
c 803	208	7.6	1008	13	US-10-027-632-263136	Sequence 263136,
c 804	208	7.6	1008	16	US-10-027-632-263136	Sequence 263136,
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806	208	7.6	1070	16	US-10-027-632-9418	Sequence 9418, Ap
807	208	7.6	2470	13	US-10-027-632-101883	Sequence 101883,
808	208	7.6	2470	16	US-10-027-632-101883	Sequence 101883,
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c 813	208	7.6	27681	15	US-10-091-504-1997	Sequence 1997, Ap
c 814	208	7.6	27681	15	US-10-091-504-1998	Sequence 1998, Ap
c 815	208	7.6	27681	16	US-10-227-577-1997	Sequence 1997, Ap
c 816	208	7.6	27681	16	US-10-227-577-1998	Sequence 1998, Ap
c 817	208	7.6	227246	17	US-10-322-281-314	Sequence 314, App

c 818	208	7.6	344548	13	US-10-087-192-334	Sequence 334, App
c 819	207.8	7.6	553	13	US-10-027-632-192683	Sequence 192683,
c 820	207.8	7.6	553	16	US-10-027-632-192683	Sequence 192683,
c 821	207.8	7.6	776	13	US-10-027-632-130053	Sequence 130053,
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825	207.8	7.6	782	13	US-10-027-632-129006	Sequence 129006,
826	207.8	7.6	782	16	US-10-027-632-129004	Sequence 129004,
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830	207.8	7.6	31828	13	US-10-087-192-736	Sequence 736, App
831	207.8	7.6	53332	9	US-09-801-861-3	Sequence 3, Appli
832	207.8	7.6	53332	15	US-10-224-562-3	Sequence 3, Appli
c 833	207.8	7.6	91352	17	US-10-300-611-4	Sequence 4, Appli
c 834	207.8	7.6	96599	16	US-10-085-117-100	Sequence 100, App
835	207.8	7.6	129042	13	US-10-087-192-1240	Sequence 1240, Ap
c 836	207.8	7.6	176001	17	US-10-210-556-27	Sequence 27, Appl
c 837	207.8	7.6	186739	17	US-10-210-556-19	Sequence 19, Appl
c 838	207.6	7.6	717	13	US-10-027-632-27294	Sequence 27294, A
c 839	207.6	7.6	717	16	US-10-027-632-27294	Sequence 27294, A
c 840	207.6	7.6	1767	16	US-10-104-047-1706	Sequence 1706, Ap
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842	207.6	7.6	16553	16	US-10-264-237-2851	Sequence 2851, Ap
c 843	207.6	7.6	86001	17	US-10-317-500-4	Sequence 4, Appli
844	207.6	7.6	370469	13	US-10-087-192-250	Sequence 250, App
845	207.4	7.5	670	13	US-10-027-632-99522	Sequence 99522, A
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852	207.4	7.5	2895	13	US-10-027-632-111564	Sequence 111564,
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855	207.4	7.5	4513	16	US-10-264-237-2853	Sequence 2853, Ap
c 856	207.4	7.5	27756	12	US-10-052-482-76	Sequence 76, Appl
c 857	207.4	7.5	52242	12	US-10-052-482-172	Sequence 172, App
c 858	207.4	7.5	52520	17	US-10-741-601-5700	Sequence 5700, Ap
859	207.4	7.5	52745	17	US-10-741-601-5726	Sequence 5726, Ap
860	207.4	7.5	61103	13	US-10-087-192-58	Sequence 58, Appl
c 861	207.4	7.5	86361	17	US-10-741-601-5702	Sequence 5702, Ap
c 862	207.4	7.5	160361	13	US-10-235-192A-35	Sequence 35, Appl
863	207.4	7.5	169659	17	US-10-322-696-70	Sequence 70, Appl
c 864	207.4	7.5	301692	16	US-10-428-487-11	Sequence 11, Appl
c 865	207.4	7.5	310268	17	US-10-367-094-195	Sequence 195, App
c 866	207.2	7.5	4026	10	US-09-764-891-7901	Sequence 7901, Ap
867	207.2	7.5	64721	17	US-10-322-281-208	Sequence 208, App
868	207.2	7.5	66972	13	US-10-087-192-556	Sequence 556, App
c 869	207.2	7.5	139389	16	US-10-236-031B-61	Sequence 61, Appl
c 870	207	7.5	645	9	US-09-764-877-1002	Sequence 1002, Ap
c 871	207	7.5	645	16	US-10-242-515-1002	Sequence 1002, Ap
872	207	7.5	683	9	US-09-764-877-1033	Sequence 1033, Ap
873	207	7.5	683	16	US-10-242-515-1033	Sequence 1033, Ap
c 874	207	7.5	2872	13	US-10-027-632-111861	Sequence 111861,
c 875	207	7.5	2872	13	US-10-027-632-111862	Sequence 111862,
c 876	207	7.5	2872	16	US-10-027-632-111861	Sequence 111861,
c 877	207	7.5	2872	16	US-10-027-632-111862	Sequence 111862,
c 878	207	7.5	7661	9	US-09-860-670-282	Sequence 282, App
879	207	7.5	7661	10	US-09-764-861-47	Sequence 47, Appl
880	207	7.5	7661	13	US-09-764-861-47	Sequence 47, Appl
881	207	7.5	7661	15	US-10-115-928-47	Sequence 47, Appl
c 882	207	7.5	7661	16	US-10-227-646-282	Sequence 282, App
c 883	207	7.5	7661	16	US-10-158-057-355	Sequence 355, App
c 884	207	7.5	11696	9	US-09-860-670-283	Sequence 283, App
c 885	207	7.5	11696	9	US-09-860-670-284	Sequence 284, App
886	207	7.5	11696	10	US-09-764-861-48	Sequence 48, Appl
887	207	7.5	11696	10	US-09-764-861-49	Sequence 49, Appl
888	207	7.5	11696	13	US-09-764-861-48	Sequence 48, Appl
889	207	7.5	11696	13	US-09-764-861-49	Sequence 49, Appl
890	207	7.5	11696	15	US-10-115-928-48	Sequence 48, Appl
891	207	7.5	11696	15	US-10-115-928-49	Sequence 49, Appl
c 892	207	7.5	11696	16	US-10-227-646-283	Sequence 283, App
c 893	207	7.5	11696	16	US-10-227-646-284	Sequence 284, App
c 894	207	7.5	11696	16	US-10-158-057-356	Sequence 356, App
c 895	207	7.5	11696	16	US-10-158-057-357	Sequence 357, App
c 896	207	7.5	45980	10	US-09-957-956-6	Sequence 6, Appli
c 897	207	7.5	518360	17	US-10-367-094-125	Sequence 125, App
c 898	207	7.5	744802	16	US-10-292-798-1369	Sequence 1369, Ap
c 899	206.8	7.5	633	13	US-10-027-632-272717	Sequence 272717,
c 900	206.8	7.5	633	16	US-10-027-632-272717	Sequence 272717,
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902	206.8	7.5	21784	15	US-10-274-031-3	Sequence 3, Appli
c 903	206.8	7.5	106938	17	US-10-322-281-566	Sequence 566, App
c 904	206.6	7.5	12970	10	US-09-764-891-7689	Sequence 7689, Ap
905	206.6	7.5	18853	15	US-10-109-856-3	Sequence 3, Appli
906	206.6	7.5	18853	17	US-10-767-341-3	Sequence 3, Appli
c 907	206.6	7.5	100445	17	US-10-322-281-170	Sequence 170, App
908	206.6	7.5	164875	16	US-10-085-117-322	Sequence 322, App
909	206.6	7.5	227931	16	US-10-085-117-274	Sequence 274, App
910	206.6	7.5	247682	13	US-10-235-192A-28	Sequence 28, Appl
c 911	206.4	7.5	22517	17	US-10-322-281-636	Sequence 636, App
c 912	206.4	7.5	39000	10	US-09-957-956-5	Sequence 5, Appli
c 913	206.4	7.5	136726	16	US-10-085-117-244	Sequence 244, App
914	206.4	7.5	142976	17	US-10-367-094-99	Sequence 99, Appl
915	206.4	7.5	301477	17	US-10-322-281-456	Sequence 456, App
c 916	206.2	7.5	548	13	US-10-027-632-269631	Sequence 269631,
c 917	206.2	7.5	548	16	US-10-027-632-269631	Sequence 269631,
918	206.2	7.5	594	13	US-10-027-632-110818	Sequence 110818,
919	206.2	7.5	594	16	US-10-027-632-110818	Sequence 110818,
c 920	206.2	7.5	151870	17	US-10-741-601-5614	Sequence 5614, Ap
c 921	206.2	7.5	217409	13	US-10-087-192-1954	Sequence 1954, Ap
c 922	206	7.5	598	13	US-10-027-632-78881	Sequence 78881, A
c 923	206	7.5	598	16	US-10-027-632-78881	Sequence 78881, A
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925	206	7.5	625	13	US-10-027-632-62353	Sequence 62353, A
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933	206	7.5	625	16	US-10-027-632-297660	Sequence 297660,
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c 935	206	7.5	9745	15	US-10-091-504-2259	Sequence 2259, Ap
c 936	206	7.5	9745	16	US-10-227-577-2259	Sequence 2259, Ap
937	206	7.5	15577	15	US-10-158-160A-8	Sequence 8, Appli
938	206	7.5	32367	15	US-10-158-160A-14	Sequence 14, Appl
939	206	7.5	102790	17	US-10-367-094-163	Sequence 163, App
c 940	206	7.5	123526	10	US-09-910-185-11	Sequence 11, Appl
941	206	7.5	181684	13	US-10-087-192-790	Sequence 790, App
c 942	205.8	7.5	431	13	US-10-027-632-269632	Sequence 269632,
c 943	205.8	7.5	431	16	US-10-027-632-269632	Sequence 269632,
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c 946	205.8	7.5	590	16	US-10-027-632-93928	Sequence 93928, A
c 947	205.8	7.5	590	16	US-10-027-632-93929	Sequence 93929, A
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951	205.8	7.5	1863	16	US-10-027-632-97606	Sequence 97606, A
c 952	205.8	7.5	2147	9	US-09-764-847-1738	Sequence 1738, Ap
c 953	205.8	7.5	2147	15	US-10-092-154-1738	Sequence 1738, Ap
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955	205.8	7.5	2758	16	US-10-117-722-884	Sequence 884, App
c 956	205.8	7.5	23307	10	US-09-764-891-5530	Sequence 5530, Ap
957	205.8	7.5	23307	10	US-09-764-891-5646	Sequence 5646, Ap
958	205.8	7.5	47318	13	US-10-087-192-1324	Sequence 1324, Ap
c 959	205.8	7.5	47573	12	US-09-997-722-106	Sequence 106, App
960	205.8	7.5	81968	17	US-10-322-696-142	Sequence 142, App
c 961	205.8	7.5	95109	17	US-10-433-287-80	Sequence 80, Appl
c 962	205.8	7.5	122656	17	US-10-322-281-846	Sequence 846, App
963	205.8	7.5	133893	14	US-10-161-510-1	Sequence 1, Appli

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c 965	205.8	7.5	166043	13	US-10-235-192A-46	Sequence 46, Appl
c 966	205.6	7.5	9620	10	US-09-764-891-8895	Sequence 8895, Ap
967	205.6	7.5	12932	9	US-09-764-847-1132	Sequence 1132, Ap
968	205.6	7.5	12932	15	US-10-092-154-1132	Sequence 1132, Ap
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c 970	205.6	7.5	54169	13	US-10-087-192-1486	Sequence 1486, Ap
971	205.6	7.5	60461	16	US-10-341-434-82	Sequence 82, Appl
972	205.6	7.5	88445	17	US-10-322-281-724	Sequence 724, App
973	205.6	7.5	121434	17	US-10-303-165-11	Sequence 11, Appl
c 974	205.6	7.5	149480	10	US-09-873-367C-284	Sequence 284, App
c 975	205.6	7.5	149480	10	US-09-873-367C-285	Sequence 285, App
c 976	205.6	7.5	149480	12	US-09-968-007A-232	Sequence 232, App
c 977	205.6	7.5	152501	17	US-10-316-231-4	Sequence 4, Appli
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979	205.6	7.5	235033	15	US-10-301-844-1	Sequence 1, Appli
c 980	205.6	7.5	1691139	15	US-10-067-514-1	Sequence 1, Appli
c 981	205.6	7.5	1691139	16	US-10-419-723-1	Sequence 1, Appli
982	205.4	7.5	623	13	US-10-027-632-107058	Sequence 107058,
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c 985	205.4	7.5	658	16	US-10-027-632-259880	Sequence 259880,
c 986	205.4	7.5	801	13	US-10-027-632-156334	Sequence 156334,
c 987	205.4	7.5	801	13	US-10-027-632-156335	Sequence 156335,
c 988	205.4	7.5	801	16	US-10-027-632-156334	Sequence 156334,
c 989	205.4	7.5	801	16	US-10-027-632-156335	Sequence 156335,
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c 991	205.4	7.5	2053	13	US-10-027-632-99022	Sequence 99022, A
c 992	205.4	7.5	2053	16	US-10-027-632-99022	Sequence 99022, A
993	205.4	7.5	4453	9	US-09-764-848-49	Sequence 49, Appl
994	205.4	7.5	4453	15	US-10-116-016-49	Sequence 49, Appl
995	205.4	7.5	4453	15	US-10-222-020-49	Sequence 49, Appl
996	205.4	7.5	95960	13	US-10-087-192-1384	Sequence 1384, Ap
997	205.4	7.5	95960	13	US-10-087-192-1390	Sequence 1390, Ap
998	205.4	7.5	104245	13	US-10-655-847-4	Sequence 4, Appli
999	205.4	7.5	104245	13	US-10-160-807-4	Sequence 4, Appli
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c1002	205.4	7.5	170245	17	US-10-717-597-322	Sequence 322, App
c1003	205.4	7.5	175561	13	US-10-235-192A-48	Sequence 48, Appl
c1004	205.4	7.5	175561	15	US-10-017-721-3	Sequence 3, Appli
c1005	205.2	7.5	779	13	US-10-027-632-123904	Sequence 123904,
c1006	205.2	7.5	779	16	US-10-027-632-123904	Sequence 123904,
1007	205.2	7.5	32190	9	US-09-764-887-338	Sequence 338, App
1008	205.2	7.5	32190	15	US-10-073-961-338	Sequence 338, App
1009	205.2	7.5	35360	17	US-10-322-281-152	Sequence 152, App
1010	205.2	7.5	67088	17	US-10-741-601-5704	Sequence 5704, Ap
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1012	205.2	7.5	136726	16	US-10-085-117-244	Sequence 244, App
1013	205.2	7.5	198522	13	US-10-087-192-244	Sequence 244, App
1014	205.2	7.5	220860	17	US-10-684-190-3	Sequence 3, Appli
c1015	205	7.5	512	13	US-10-027-632-266745	Sequence 266745,
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1017	205	7.5	623	13	US-10-027-632-107059	Sequence 107059,
1018	205	7.5	623	16	US-10-027-632-107059	Sequence 107059,
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1026	205	7.5	2255	16	US-10-027-632-101929	Sequence 101929,
c1027	205	7.5	2814	13	US-10-027-632-112252	Sequence 112252,
c1028	205	7.5	2814	16	US-10-027-632-112252	Sequence 112252,
c1029	205	7.5	6122	15	US-10-225-567A-179	Sequence 179, App
c1030	205	7.5	6122	17	US-10-755-889-185	Sequence 185, App
c1031	205	7.5	11627	10	US-09-764-891-10051	Sequence 10051, A
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1035	205	7.5	31277	13	US-10-087-192-1510	Sequence 1510, Ap
c1036	205	7.5	51289	17	US-10-322-281-648	Sequence 648, App
1037	205	7.5	67810	13	US-10-087-192-1738	Sequence 1738, Ap
c1038	205	7.5	73995	13	US-10-087-192-208	Sequence 208, App
c1039	205	7.5	99886	13	US-10-087-192-328	Sequence 328, App
c1040	205	7.5	143306	9	US-09-729-920-3	Sequence 3, Appli
1041	205	7.5	344548	13	US-10-087-192-334	Sequence 334, App
1042	205	7.5	405660	17	US-10-322-696-82	Sequence 82, Appl
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c1044	204.8	7.4	863	13	US-10-027-632-171653	Sequence 171653,
c1045	204.8	7.4	863	13	US-10-027-632-171654	Sequence 171654,
c1046	204.8	7.4	863	16	US-10-027-632-171652	Sequence 171652,
c1047	204.8	7.4	863	16	US-10-027-632-171653	Sequence 171653,
c1048	204.8	7.4	863	16	US-10-027-632-171654	Sequence 171654,
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c1050	204.8	7.4	913	16	US-10-027-632-9550	Sequence 9550, Ap
1051	204.8	7.4	3226	16	US-10-108-260A-723	Sequence 723, App
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c1054	204.8	7.4	7703	9	US-09-764-887-456	Sequence 456, App
c1055	204.8	7.4	7703	15	US-10-073-961-415	Sequence 415, App
c1056	204.8	7.4	7703	15	US-10-073-961-456	Sequence 456, App
1057	204.8	7.4	21823	17	US-10-322-281-794	Sequence 794, App
c1058	204.8	7.4	52093	16	US-10-085-117-256	Sequence 256, App
1059	204.8	7.4	52710	17	US-10-322-281-572	Sequence 572, App
c1060	204.8	7.4	55827	13	US-10-212-877-3	Sequence 3, Appli
c1061	204.8	7.4	59856	13	US-10-087-192-664	Sequence 664, App
1062	204.8	7.4	109586	13	US-10-087-192-220	Sequence 220, App
c1063	204.8	7.4	126001	16	US-10-175-492-13	Sequence 13, Appl
1064	204.8	7.4	139214	13	US-10-087-192-2038	Sequence 2038, Ap
c1065	204.8	7.4	253861	17	US-10-741-601-5611	Sequence 5611, Ap
c1066	204.8	7.4	256493	13	US-10-087-192-1000	Sequence 1000, Ap
c1067	204.8	7.4	261817	13	US-10-087-192-2002	Sequence 2002, Ap
1068	204.8	7.4	312477	17	US-10-317-883A-12	Sequence 12, Appl
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c1070	204.6	7.4	605	13	US-10-027-632-274045	Sequence 274045,
c1071	204.6	7.4	605	16	US-10-027-632-274044	Sequence 274044,
c1072	204.6	7.4	605	16	US-10-027-632-274045	Sequence 274045,
1073	204.6	7.4	1556	13	US-10-027-632-262328	Sequence 262328,
1074	204.6	7.4	1556	16	US-10-027-632-262328	Sequence 262328,
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c1076	204.6	7.4	3254	16	US-10-027-632-114418	Sequence 114418,
1077	204.6	7.4	6892	9	US-09-764-877-3770	Sequence 3770, Ap
1078	204.6	7.4	6892	16	US-10-242-515-3770	Sequence 3770, Ap
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c1081	204.6	7.4	13968	16	US-10-227-577-2224	Sequence 2224, Ap
c1082	204.6	7.4	26667	17	US-10-741-601-5709	Sequence 5709, Ap
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1087	204.6	7.4	44063	17	US-10-322-281-718	Sequence 718, App
c1088	204.6	7.4	52710	17	US-10-322-281-572	Sequence 572, App
c1089	204.6	7.4	58922	17	US-10-322-281-526	Sequence 526, App
c1090	204.6	7.4	75729	17	US-10-741-601-5649	Sequence 5649, Ap
1091	204.6	7.4	96595	12	US-10-052-482-232	Sequence 232, App
c1092	204.6	7.4	105413	16	US-10-427-923-3	Sequence 3, Appli
1093	204.6	7.4	108316	16	US-10-292-798-1789	Sequence 1789, Ap
1094	204.6	7.4	108317	15	US-10-017-161-2143	Sequence 2143, Ap
c1095	204.6	7.4	112241	17	US-10-322-281-656	Sequence 656, App
c1096	204.6	7.4	131576	13	US-10-087-192-1564	Sequence 1564, Ap
c1097	204.6	7.4	149671	16	US-10-236-031B-53	Sequence 53, Appl
1098	204.4	7.4	630	13	US-10-027-632-104227	Sequence 104227,
1099	204.4	7.4	630	13	US-10-027-632-325172	Sequence 325172,
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1103	204.4	7.4	697	16	US-10-027-632-289924	Sequence 289924,
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1105	204.4	7.4	1046	16	US-10-027-632-251984	Sequence 251984,
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c1107	204.4	7.4	1105	16	US-10-027-632-119362	Sequence 119362,
c1108	204.4	7.4	1332	14	US-10-080-644-1	Sequence 1, Appli
1109	204.4	7.4	5876	10	US-09-764-891-8264	Sequence 8264, Ap

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c1112	204.4	7.4	10434	16	US-10-227-577-1668	Sequence 1668, Ap
c1113	204.4	7.4	36296	13	US-10-240-425-1584	Sequence 1584, Ap
1114	204.4	7.4	53742	13	US-10-087-192-1534	Sequence 1534, Ap
1115	204.4	7.4	58329	13	US-10-087-192-82	Sequence 82, Appl
1116	204.4	7.4	90541	9	US-09-759-359A-3	Sequence 3, Appli
1117	204.4	7.4	90541	15	US-10-207-973-3	Sequence 3, Appli
1118	204.4	7.4	90541	17	US-10-799-676-3	Sequence 3, Appli
1119	204.4	7.4	96595	16	US-10-034-650-34	Sequence 34, Appl
1120	204.4	7.4	217409	13	US-10-087-192-1954	Sequence 1954, Ap
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1122	204.4	7.4	326014	17	US-10-751-985-3	Sequence 3, Appli
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1124	204.2	7.4	508	16	US-10-027-632-128676	Sequence 128676,
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c1127	204.2	7.4	605	13	US-10-027-632-274046	Sequence 274046,
c1128	204.2	7.4	605	16	US-10-027-632-274046	Sequence 274046,
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1130	204.2	7.4	617	13	US-10-027-632-96423	Sequence 96423, A
1131	204.2	7.4	617	16	US-10-027-632-96422	Sequence 96422, A
1132	204.2	7.4	617	16	US-10-027-632-96423	Sequence 96423, A
1133	204.2	7.4	928	13	US-10-027-632-164276	Sequence 164276,
1134	204.2	7.4	928	13	US-10-027-632-164277	Sequence 164277,
1135	204.2	7.4	928	16	US-10-027-632-164276	Sequence 164276,
1136	204.2	7.4	928	16	US-10-027-632-164277	Sequence 164277,
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c1138	204.2	7.4	1019	13	US-10-027-632-121623	Sequence 121623,
c1139	204.2	7.4	1019	16	US-10-027-632-121622	Sequence 121622,
c1140	204.2	7.4	1019	16	US-10-027-632-121623	Sequence 121623,
1141	204.2	7.4	9192	9	US-09-764-847-1246	Sequence 1246, Ap
1142	204.2	7.4	9192	9	US-09-764-877-2218	Sequence 2218, Ap
1143	204.2	7.4	9192	15	US-10-092-154-1246	Sequence 1246, Ap
1144	204.2	7.4	9192	16	US-10-242-515-2218	Sequence 2218, Ap
1145	204.2	7.4	23618	13	US-10-087-192-4	Sequence 4, Appli
c1146	204.2	7.4	57082	17	US-10-715-066-1	Sequence 1, Appli
1147	204.2	7.4	91749	13	US-10-087-192-550	Sequence 550, App
c1148	204.2	7.4	98686	16	US-10-189-267-20	Sequence 20, Appl
1149	204.2	7.4	99014	9	US-09-880-107-3428	Sequence 3428, Ap
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1151	204.2	7.4	107820	17	US-10-764-328-1	Sequence 1, Appli
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1153	204	7.4	641	13	US-10-027-632-255796	Sequence 255796,
1154	204	7.4	641	16	US-10-027-632-255796	Sequence 255796,
1155	204	7.4	685	13	US-10-027-632-255502	Sequence 255502,
1156	204	7.4	685	16	US-10-027-632-255502	Sequence 255502,
1157	204	7.4	1150	13	US-10-027-632-10014	Sequence 10014, A
1158	204	7.4	1150	16	US-10-027-632-10014	Sequence 10014, A
c1159	204	7.4	1841	10	US-09-798-889-40	Sequence 40, Appl
c1160	204	7.4	1841	13	US-10-633-680-40	Sequence 40, Appl
1161	204	7.4	15306	10	US-09-764-891-10219	Sequence 10219, A
1162	204	7.4	20530	10	US-09-764-891-8252	Sequence 8252, Ap
c1163	204	7.4	20530	16	US-10-074-024-867	Sequence 867, App
1164	204	7.4	31116	13	US-10-087-192-1660	Sequence 1660, Ap
c1165	204	7.4	36303	15	US-10-152-724A-24	Sequence 24, Appl
c1166	204	7.4	58822	12	US-10-052-482-46	Sequence 46, Appl
c1167	204	7.4	59554	12	US-10-052-482-202	Sequence 202, App
c1168	204	7.4	60153	15	US-10-222-334-7	Sequence 7, Appli
c1169	204	7.4	84105	17	US-10-741-601-5637	Sequence 5637, Ap
c1170	204	7.4	118931	13	US-10-087-192-1108	Sequence 1108, Ap
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1173	203.8	7.4	2112	13	US-10-027-632-97358	Sequence 97358, A
1174	203.8	7.4	2112	13	US-10-027-632-97359	Sequence 97359, A
1175	203.8	7.4	2112	13	US-10-027-632-103733	Sequence 103733,
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1179	203.8	7.4	2112	16	US-10-027-632-97358	Sequence 97358, A
1180	203.8	7.4	2112	16	US-10-027-632-97359	Sequence 97359, A
1181	203.8	7.4	2112	16	US-10-027-632-103733	Sequence 103733,
1182	203.8	7.4	2112	16	US-10-027-632-103734	Sequence 103734,
1183	203.8	7.4	2112	16	US-10-027-632-103735	Sequence 103735,
1184	203.8	7.4	2547	16	US-10-104-047-819	Sequence 819, App
1185	203.8	7.4	15515	9	US-09-822-860-3	Sequence 3, Appli
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c1187	203.8	7.4	28818	16	US-10-242-515-2266	Sequence 2266, Ap
c1188	203.8	7.4	81199	13	US-10-087-192-1150	Sequence 1150, Ap
c1189	203.8	7.4	129042	13	US-10-087-192-1240	Sequence 1240, Ap
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1194	203.6	7.4	554	13	US-10-027-632-61460	Sequence 61460, A
1195	203.6	7.4	554	13	US-10-027-632-61461	Sequence 61461, A
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1197	203.6	7.4	554	13	US-10-027-632-107687	Sequence 107687,
1198	203.6	7.4	554	13	US-10-027-632-107688	Sequence 107688,
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1204	203.6	7.4	554	16	US-10-027-632-107687	Sequence 107687,
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1210	203.6	7.4	5088	9	US-09-764-869-1760	Sequence 1760, Ap
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1212	203.6	7.4	5088	10	US-09-764-891-6384	Sequence 6384, Ap
c1213	203.6	7.4	5088	10	US-09-764-891-9497	Sequence 9497, Ap
1214	203.6	7.4	5088	11	US-09-984-429-224	Sequence 224, App
1215	203.6	7.4	5088	11	US-09-984-429-615	Sequence 615, App
c1216	203.6	7.4	5088	13	US-10-091-414-340	Sequence 340, App
1217	203.6	7.4	5088	15	US-10-091-504-1760	Sequence 1760, Ap
1218	203.6	7.4	5088	15	US-10-205-428-674	Sequence 674, App
1219	203.6	7.4	5088	16	US-10-227-577-1760	Sequence 1760, Ap
1220	203.6	7.4	30000	15	US-10-007-010-10	Sequence 10, Appl
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1222	203.6	7.4	168821	13	US-10-087-192-622	Sequence 622, App
c1223	203.6	7.4	216929	17	US-10-741-601-5727	Sequence 5727, Ap
1224	203.6	7.4	347001	17	US-10-319-908-16	Sequence 16, Appl
1225	203.6	7.4	684973	9	US-09-263-959-1	Sequence 1, Appli
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c1227	203.4	7.4	708	16	US-10-012-697-187	Sequence 187, App
1228	203.4	7.4	746	13	US-10-027-632-262990	Sequence 262990,
1229	203.4	7.4	746	16	US-10-027-632-262990	Sequence 262990,
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c1231	203.4	7.4	1334	13	US-10-027-632-265791	Sequence 265791,
c1232	203.4	7.4	1334	16	US-10-027-632-265790	Sequence 265790,
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c1235	203.4	7.4	3740	10	US-09-764-891-9984	Sequence 9984, Ap
c1236	203.4	7.4	32249	10	US-09-764-891-8024	Sequence 8024, Ap
1237	203.4	7.4	38374	9	US-09-880-107-3463	Sequence 3463, Ap
1238	203.4	7.4	38374	12	US-09-968-007A-230	Sequence 230, App
1239	203.4	7.4	38374	12	US-09-968-007A-231	Sequence 231, App
1240	203.4	7.4	38374	12	US-09-968-007A-691	Sequence 691, App
1241	203.4	7.4	50602	13	US-10-087-192-448	Sequence 448, App
c1242	203.4	7.4	62804	14	US-10-096-960-3	Sequence 3, Appli
c1243	203.4	7.4	62804	17	US-10-623-505-3	Sequence 3, Appli
c1244	203.4	7.4	75899	9	US-09-854-883-243	Sequence 243, App
c1245	203.4	7.4	75899	16	US-10-360-510-243	Sequence 243, App
1246	203.4	7.4	113000	15	US-10-376-566-16	Sequence 16, Appl
1247	203.4	7.4	193357	16	US-10-085-117-142	Sequence 142, App
c1248	203.4	7.4	194883	13	US-10-087-192-826	Sequence 826, App
1249	203.4	7.4	357652	17	US-10-322-696-34	Sequence 34, Appl
1250	203.2	7.4	630	13	US-10-027-632-125085	Sequence 125085,
1251	203.2	7.4	630	16	US-10-027-632-125085	Sequence 125085,
1252	203.2	7.4	1046	13	US-10-027-632-251985	Sequence 251985,
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1254	203.2	7.4	3347	13	US-10-027-632-116266	Sequence 116266,
1255	203.2	7.4	3347	16	US-10-027-632-116266	Sequence 116266,

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1257	203.2	7.4	4352	16	US-10-117-722-555	Sequence 555, App
1258	203.2	7.4	7970	9	US-09-764-868-1357	Sequence 1357, Ap
1259	203.2	7.4	17993	9	US-09-768-781-5	Sequence 5, Appli
c1260	203.2	7.4	32199	9	US-09-764-855-210	Sequence 210, App
c1261	203.2	7.4	32199	15	US-10-072-349-210	Sequence 210, App
c1262	203.2	7.4	45367	16	US-10-085-117-328	Sequence 328, App
1263	203.2	7.4	67126	17	US-10-741-601-5691	Sequence 5691, Ap
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c1265	203.2	7.4	160921	13	US-10-087-192-1672	Sequence 1672, Ap
c1266	203.2	7.4	161531	17	US-10-322-281-252	Sequence 252, App
c1267	203.2	7.4	203264	13	US-10-087-192-988	Sequence 988, App
1268	203	7.4	833	13	US-10-027-632-169353	Sequence 169353,
1269	203	7.4	833	16	US-10-027-632-169353	Sequence 169353,
1270	203	7.4	883	15	US-10-017-161-1343	Sequence 1343, Ap
1271	203	7.4	883	16	US-10-292-798-1103	Sequence 1103, Ap
c1272	203	7.4	17491	15	US-10-017-161-1995	Sequence 1995, Ap
c1273	203	7.4	21666	12	US-10-052-482-208	Sequence 208, App
1274	203	7.4	29346	16	US-10-085-117-52	Sequence 52, Appl
1275	203	7.4	56339	16	US-10-085-117-280	Sequence 280, App
1276	203	7.4	59588	15	US-10-017-161-2233	Sequence 2233, Ap
1277	203	7.4	59588	16	US-10-292-798-1879	Sequence 1879, Ap
1278	203	7.4	72604	15	US-10-162-497-7	Sequence 7, Appli
1279	203	7.4	89567	17	US-10-322-281-838	Sequence 838, App
1280	203	7.4	96592	12	US-09-997-722-88	Sequence 88, Appl
c1281	203	7.4	113000	15	US-10-376-566-16	Sequence 16, Appl
c1282	203	7.4	338702	13	US-10-087-192-292	Sequence 292, App
1283	203	7.4	347814	17	US-10-322-696-76	Sequence 76, Appl
1284	203	7.4	518360	17	US-10-367-094-125	Sequence 125, App
1285	202.8	7.4	643	13	US-10-027-632-143660	Sequence 143660,
1286	202.8	7.4	643	16	US-10-027-632-143660	Sequence 143660,
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1288	202.8	7.4	689	13	US-10-027-632-20580	Sequence 20580, A
1289	202.8	7.4	689	13	US-10-027-632-20581	Sequence 20581, A
1290	202.8	7.4	689	16	US-10-027-632-20579	Sequence 20579, A
1291	202.8	7.4	689	16	US-10-027-632-20580	Sequence 20580, A
1292	202.8	7.4	689	16	US-10-027-632-20581	Sequence 20581, A
1293	202.8	7.4	794	13	US-10-027-632-164984	Sequence 164984,
1294	202.8	7.4	794	16	US-10-027-632-164984	Sequence 164984,
1295	202.8	7.4	1090	13	US-10-027-632-117632	Sequence 117632,
1296	202.8	7.4	1090	16	US-10-027-632-117632	Sequence 117632,
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c1298	202.8	7.4	2443	13	US-10-027-632-110287	Sequence 110287,
c1299	202.8	7.4	2443	16	US-10-027-632-110286	Sequence 110286,
c1300	202.8	7.4	2443	16	US-10-027-632-110287	Sequence 110287,
1301	202.8	7.4	4915	9	US-09-764-887-306	Sequence 306, App
1302	202.8	7.4	4915	15	US-10-073-961-306	Sequence 306, App
c1303	202.8	7.4	25301	17	US-10-671-007-3	Sequence 3, Appli
1304	202.8	7.4	32146	9	US-09-764-860-797	Sequence 797, App
1305	202.8	7.4	32146	15	US-10-074-095-797	Sequence 797, App
1306	202.8	7.4	32146	16	US-10-212-872-797	Sequence 797, App
1307	202.8	7.4	32248	9	US-09-764-860-802	Sequence 802, App
1308	202.8	7.4	32248	15	US-10-074-095-802	Sequence 802, App
1309	202.8	7.4	32248	16	US-10-212-872-802	Sequence 802, App
1310	202.8	7.4	41454	13	US-10-087-192-1642	Sequence 1642, Ap
1311	202.8	7.4	101193	17	US-10-322-281-468	Sequence 468, App
1312	202.8	7.4	104062	13	US-10-087-192-916	Sequence 916, App
c1313	202.8	7.4	106707	17	US-10-694-685-8	Sequence 8, Appli
1314	202.8	7.4	133787	17	US-10-322-281-858	Sequence 858, App
c1315	202.8	7.4	136328	15	US-10-101-510-127	Sequence 127, App
c1316	202.8	7.4	188794	17	US-10-322-696-112	Sequence 112, App
1317	202.6	7.4	491	13	US-10-027-632-266649	Sequence 266649,
1318	202.6	7.4	491	13	US-10-027-632-266650	Sequence 266650,
1319	202.6	7.4	491	13	US-10-027-632-266651	Sequence 266651,
1320	202.6	7.4	491	16	US-10-027-632-266649	Sequence 266649,
1321	202.6	7.4	491	16	US-10-027-632-266650	Sequence 266650,
1322	202.6	7.4	491	16	US-10-027-632-266651	Sequence 266651,
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c1324	202.6	7.4	585	16	US-10-027-632-214755	Sequence 214755,
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1326	202.6	7.4	624	16	US-10-027-632-205535	Sequence 205535,
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c1328	202.6	7.4	1094	13	US-10-027-632-117197	Sequence 117197,
c1329	202.6	7.4	1094	16	US-10-027-632-117196	Sequence 117196,
c1330	202.6	7.4	1094	16	US-10-027-632-117197	Sequence 117197,
1331	202.6	7.4	15203	15	US-10-017-161-1971	Sequence 1971, Ap
1332	202.6	7.4	15203	16	US-10-292-798-1619	Sequence 1619, Ap
1333	202.6	7.4	24888	12	US-10-052-482-130	Sequence 130, App
c1334	202.6	7.4	32146	9	US-09-764-860-797	Sequence 797, App
c1335	202.6	7.4	32146	15	US-10-074-095-797	Sequence 797, App
c1336	202.6	7.4	32146	16	US-10-212-872-797	Sequence 797, App
1337	202.6	7.4	32152	9	US-09-764-855-328	Sequence 328, App
c1338	202.6	7.4	32152	10	US-09-764-872-518	Sequence 518, App
1339	202.6	7.4	32152	15	US-10-072-349-328	Sequence 328, App
c1340	202.6	7.4	32248	9	US-09-764-860-802	Sequence 802, App
c1341	202.6	7.4	32248	15	US-10-074-095-802	Sequence 802, App
c1342	202.6	7.4	32248	16	US-10-212-872-802	Sequence 802, App
1343	202.6	7.4	38918	15	US-10-017-161-2049	Sequence 2049, Ap
1344	202.6	7.4	38918	16	US-10-292-798-1695	Sequence 1695, Ap
c1345	202.6	7.4	53106	16	US-10-034-650-10	Sequence 10, Appl
c1346	202.6	7.4	109586	13	US-10-087-192-220	Sequence 220, App
1347	202.6	7.4	128034	13	US-10-282-174-186	Sequence 186, App
1348	202.6	7.4	128034	13	US-10-282-174-187	Sequence 187, App
1349	202.6	7.4	168198	17	US-10-322-696-88	Sequence 88, Appl
c1350	202.6	7.4	202100	13	US-10-282-174-484	Sequence 484, App
1351	202.6	7.4	300000	15	US-10-262-552-33	Sequence 33, Appl
1352	202.6	7.4	300000	17	US-10-703-210-33	Sequence 33, Appl
1353	202.6	7.4	325348	16	US-10-085-117-358	Sequence 358, App
1354	202.6	7.4	330973	13	US-10-087-192-1498	Sequence 1498, Ap
1355	202.4	7.4	611	13	US-10-027-632-214388	Sequence 214388,
1356	202.4	7.4	611	13	US-10-027-632-214389	Sequence 214389,
1357	202.4	7.4	611	16	US-10-027-632-214388	Sequence 214388,
1358	202.4	7.4	611	16	US-10-027-632-214389	Sequence 214389,
1359	202.4	7.4	641	13	US-10-027-632-255797	Sequence 255797,
1360	202.4	7.4	641	16	US-10-027-632-255797	Sequence 255797,
1361	202.4	7.4	685	13	US-10-027-632-255503	Sequence 255503,
1362	202.4	7.4	685	16	US-10-027-632-255503	Sequence 255503,
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c1364	202.4	7.4	6566	17	US-10-654-428-3	Sequence 3, Appli
1365	202.4	7.4	11968	10	US-09-764-891-8251	Sequence 8251, Ap
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ALIGNMENTS

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; Patent No. US20020072067A1
; GENERAL INFORMATION:
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; APPLICANT: Baker,Kevin P.
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; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C63
; CURRENT APPLICATION NUMBER: US/09/989,722
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
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; PRIOR FILING DATE: 1998-07-09

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RESULT 2
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; Sequence 516, Application US/09989723
; Patent No. US20020072092A1
; GENERAL INFORMATION:
;  APPLICANT: Ashkenazi,Avi J.
;  APPLICANT:  Baker,Kevin P.
;  APPLICANT:  Botstein,David
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Eaton,Dan L.
;  APPLICANT:  Ferrara,Napoleone
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Gerber,Hanspeter
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,J.Christopher
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Kljavin,Ivar J.
;  APPLICANT:  Napier,Mary A.
;  APPLICANT:  Pan,James
;  APPLICANT:  Paoni,Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Watanabe, Colin K.
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William I.
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: P2730P1C62
;  CURRENT APPLICATION NUMBER: US/09/989,723
;  CURRENT FILING DATE:  2001-11-19
;  PRIOR APPLICATION NUMBER: 60/049787
;  PRIOR FILING DATE: 1997-06-16
;  PRIOR APPLICATION NUMBER: 60/062250
;  PRIOR FILING DATE: 1997-10-17
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; PRIOR FILING DATE: 1998-07-07
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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 99.9%; Score 2747; DB 9; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 3
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; Patent No. US20020072496A1
; GENERAL INFORMATION:
;  APPLICANT: Ashkenazi,Avi J.
;  APPLICANT:  Baker,Kevin P.
;  APPLICANT:  Botstein,David
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Eaton,Dan L.
;  APPLICANT:  Ferrara,Napoleone
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Gerber,Hanspeter
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,J.Christopher
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Kljavin,Ivar J.
;  APPLICANT:  Napier,Mary A.
;  APPLICANT:  Pan,James
;  APPLICANT:  Paoni,Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Watanabe, Colin K.
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William I.
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: P2730P1C56
;  CURRENT APPLICATION NUMBER: US/09/989,279
;  CURRENT FILING DATE:  2001-11-19
;  PRIOR APPLICATION NUMBER: 60/049787
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; PRIOR FILING DATE: 1998-07-09

Query Match 99.9%; Score 2747; DB 9; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 4
US-09-989-727-516
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; Patent No. US20020072497A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi,Avi J.
; APPLICANT: Baker,Kevin P.
; APPLICANT: Botstein,David
; APPLICANT: Desnoyers,Luc
; APPLICANT: Eaton,Dan L.
; APPLICANT: Ferrara,Napoleone
; APPLICANT: Fong,Sherman
; APPLICANT: Gerber,Hanspeter
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Grimaldi,J.Christopher
; APPLICANT: Gurney,Austin L.
; APPLICANT: Kljavin,Ivar J.
; APPLICANT: Napier,Mary A.
; APPLICANT: Pan,James
; APPLICANT: Paoni,Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C65
; CURRENT APPLICATION NUMBER: US/09/989,727
; CURRENT FILING DATE: 2001-11-19

; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
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;  PRIOR FILING DATE: 1998-07-07
;  PRIOR APPLICATION NUMBER: 60/091982
;  PRIOR FILING DATE: 1998-07-07
;  PRIOR APPLICATION NUMBER: 60/092182
;  PRIOR FILING DATE: 1998-07-09

  Query Match             99.9%;  Score 2747;  DB 9;  Length 2749;
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  Matches 2749;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Qy       1621 ATTCTAACAATGCCCAGTGACTGTCGCACTTGAGTTTGAGGGCCAGTGGGCCTGATGAAC 1680
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Db       1621 ATTCTAACAATGCCCAGTGACTGTCGCACTTGAGTTTGAGGGCCAGTGGGCCTGATGAAC 1680

Qy       1681 GCTCACACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACCTGCCCCAAT 1740
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Qy       1741 AGATCTGCTCTGTCTGCGACACCAGATCCACGTGGGGACTCCCCTGAGGCCTGCTAAGTC 1800
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Db       1741 AGATCTGCTCTGTCTGCGACACCAGATCCACGTGGGGACTCCCCTGAGGCCTGCTAAGTC 1800
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Qy       2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160
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Qy       2221 GTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACC 2280
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Db       2221 GTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCACC 2280

Qy       2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340
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Qy       2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCCA 2520
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Qy       2521 TAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTCCACTCTTTTCTTC 2580
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RESULT 5
US-09-989-731-516
; Sequence 516, Application US/09989731
; Patent No. US20020103125A1
; GENERAL INFORMATION:
;  APPLICANT: Ashkenazi,Avi J.
;  APPLICANT:  Baker,Kevin P.
;  APPLICANT:  Botstein,David
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Eaton,Dan L.
;  APPLICANT:  Ferrara,Napoleone
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Gerber,Hanspeter
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,J.Christopher
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Kljavin,Ivar J.
;  APPLICANT:  Napier,Mary A.
;  APPLICANT:  Pan,James
;  APPLICANT:  Paoni,Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Watanabe, Colin K.
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William I.
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: P2730P1C70
;  CURRENT APPLICATION NUMBER: US/09/989,731
;  CURRENT FILING DATE:  2001-11-20
;  PRIOR APPLICATION NUMBER: 60/049787
;  PRIOR FILING DATE: 1997-06-16
;  PRIOR APPLICATION NUMBER: 60/062250
;  PRIOR FILING DATE: 1997-10-17
;  PRIOR APPLICATION NUMBER: 60/065186
;  PRIOR FILING DATE: 1997-11-12
;  PRIOR APPLICATION NUMBER: 60/065311
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;  PRIOR APPLICATION NUMBER: 60/075945
;  PRIOR FILING DATE: 1998-02-25
;  PRIOR APPLICATION NUMBER: 60/078910
;  PRIOR FILING DATE: 1998-03-20
;  PRIOR APPLICATION NUMBER: 60/083322
;  PRIOR FILING DATE: 1998-04-28
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;  PRIOR FILING DATE: 1998-06-05
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; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 99.9%; Score 2747; DB 9; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
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Db          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60

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Qy       361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
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Qy       421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480
Db       421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480

Qy       481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540
Db       481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540

Qy       541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600
Db       541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCAC 600

Qy       601 GAAAGGACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGG 660
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RESULT 6
US-09-989-732-516
; Sequence 516, Application US/09989732
; Patent No. US20020123463A1
; GENERAL INFORMATION:
;  APPLICANT: Ashkenazi,Avi J.
;  APPLICANT:  Baker,Kevin P.
;  APPLICANT:  Botstein,David
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Eaton,Dan L.
;  APPLICANT:  Ferrara,Napoleone
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Gerber,Hanspeter
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,J.Christopher
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Kljavin,Ivar J.
;  APPLICANT:  Napier,Mary A.
;  APPLICANT:  Pan,James
;  APPLICANT:  Paoni,Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Watanabe, Colin K.
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William I.
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: P2730P1C57
;  CURRENT APPLICATION NUMBER: US/09/989,732
;  CURRENT FILING DATE:  2001-11-19
;  PRIOR APPLICATION NUMBER: 60/049787
;  PRIOR FILING DATE: 1997-06-16
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; PRIOR FILING DATE: 1998-07-02
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; PRIOR FILING DATE: 1998-07-09

Query Match 99.9%; Score 2747; DB 9; Length 2749;
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Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180

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Db        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240

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Db        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300

Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
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Db        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360

Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
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Db        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420

Qy        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480
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Db        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480

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Db        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540

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Qy        661 AGCTCCCGCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTC 720
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Db      1141 CTCCCCACCCTCCCCAGGCTCTCCTCTTGCATGTTCCAGCCTGACCTAGAAGCGTTTGTC 1200

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Db      1201 AGCCCTGGAGCCCAGAGCGGTGGCCTTGCTCTTCCGGCTGGAGACTGGGACATCCCTGAT 1260

Qy      1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320
Db      1261 AGGTTCACATCCCTGGGCAGAGTACCAGGCTGCTGACCCTCAGCAGGGCCAGACAAGGCT 1320

Qy      1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCTCATGCCCAGTGTCG 1380
Db      1321 CAGTGGATCTGGTCTGAGTTTCAATCTGCCAGGAACTCCTGGGCCTCATGCCCAGTGTCG 1380

Qy      1381 GACCCTGCCTTCCTCCCACTCCAGACCCCACCTTGTCTTCCCTCCCTGGCGTCCTCAGAC 1440
Db      1381 GACCCTGCCTTCCTCCCACTCCAGACCCCACCTTGTCTTCCCTCCCTGGCGTCCTCAGAC 1440

Qy      1441 TTAGTCCCACGGTCTCCTGCATCAGCTGGTGATGAAGAGGAGCATGCTGGGGTGAGACTG 1500
Db      1441 TTAGTCCCACGGTCTCCTGCATCAGCTGGTGATGAAGAGGAGCATGCTGGGGTGAGACTG 1500

Qy      1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560
Db      1501 GGATTCTGGCTTCTCTTTGAACCACCTGCATCCAGCCCTTCAGGAAGCCTGTGAAAAACG 1560

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Db      1621 ATTCTAACAATGCCCAGTGACTGTCGCACTTGAGTTTGAGGGCCAGTGGGCCTGATGAAC 1680

Qy      1681 GCTCACACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCACCTGCCCCAAT 1740
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Qy      1861 TTGCCTTTNCCATTTGCCCTCCCTGGNCCATGCCTTCTTGCCTTTGGAAAAAATGATGAA 1920
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Qy      1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
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Qy      2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160
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Db      2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700

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RESULT 7
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; Sequence 516, Application US/09991073
; Patent No. US20020127576A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi,Avi J.
; APPLICANT: Baker,Kevin P.
; APPLICANT: Botstein,David
; APPLICANT: Desnoyers,Luc
; APPLICANT: Eaton,Dan L.
; APPLICANT: Ferrara,Napoleone
; APPLICANT: Fong,Sherman
; APPLICANT: Gerber,Hanspeter
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; APPLICANT: Goddard,Audrey
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; APPLICANT: Gurney,Austin L.
; APPLICANT: Kljavin,Ivar J.
; APPLICANT: Napier,Mary A.
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; APPLICANT: Paoni,Nicholas F.
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; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.

; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C15
; CURRENT APPLICATION NUMBER: US/09/991,073
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
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Query Match 99.9%; Score 2747; DB 9; Length 2749;
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RESULT 8
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; Patent No. US20020132252A1
; GENERAL INFORMATION:
;  APPLICANT: Ashkenazi,Avi J.
;  APPLICANT:  Baker,Kevin P.
;  APPLICANT:  Botstein,David
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Eaton,Dan L.
;  APPLICANT:  Ferrara,Napoleone
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Gerber,Hanspeter
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,J.Christopher
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Kljavin,Ivar J.
;  APPLICANT:  Napier,Mary A.
;  APPLICANT:  Pan,James
;  APPLICANT:  Paoni,Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Watanabe, Colin K.
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William I.
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: P2730P1C8
;  CURRENT APPLICATION NUMBER: US/09/990,442
;  CURRENT FILING DATE:  2001-11-14
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RESULT 9
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;  APPLICANT: Ashkenazi,Avi J.
;  APPLICANT:  Baker,Kevin P.
;  APPLICANT:  Botstein,David
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Eaton,Dan L.
;  APPLICANT:  Ferrara,Napoleone
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Gerber,Hanspeter
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,J.Christopher
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Kljavin,Ivar J.
;  APPLICANT:  Napier,Mary A.
;  APPLICANT:  Pan,James
;  APPLICANT:  Paoni,Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Watanabe, Colin K.
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William I.
;  APPLICANT:  Zhang, Zemin
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;  TITLE OF INVENTION:  Acids Encoding the Same
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Query Match 99.9%; Score 2747; DB 9; Length 2749;
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Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
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Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
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Db        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240

Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
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Qy        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540
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Qy        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780
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Db        721 AGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTC 780

Qy        781 CTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTC 840
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Qy       1861 TTGCCTTTNCCATTTGCCCTCCCTGGNCCATGCCTTCTTGCCTTTGGAAAAAATGATGAA 1920
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Db       2281 ACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG 2340
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Qy       2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCCA 2520
Db       2461 AGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCCA 2520
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Db       2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700
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; Sequence 516, Application US/09993604
; Patent No. US20020137075A1
; GENERAL INFORMATION:
;  APPLICANT: Ashkenazi,Avi J.
;  APPLICANT:  Baker,Kevin P.
;  APPLICANT:  Botstein,David
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Eaton,Dan L.
;  APPLICANT:  Ferrara,Napoleone
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Gerber,Hanspeter
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,J.Christopher
;  APPLICANT:  Gurney,Austin L.
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; APPLICANT: Kljavin,Ivar J.
; APPLICANT: Napier,Mary A.
; APPLICANT: Pan,James
; APPLICANT: Paoni,Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C25
; CURRENT APPLICATION NUMBER: US/09/993,604
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
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; PRIOR FILING DATE: 1998-07-09

Query Match 99.9%; Score 2747; DB 9; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 11
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; Patent No. US20020137890A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi,Avi J.
; APPLICANT: Baker,Kevin P.
; APPLICANT: Botstein,David
; APPLICANT: Desnoyers,Luc
; APPLICANT: Eaton,Dan L.
; APPLICANT: Ferrara,Napoleone
; APPLICANT: Fong,Sherman
; APPLICANT: Gerber,Hanspeter
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Grimaldi,J.Christopher
; APPLICANT: Gurney,Austin L.
; APPLICANT: Kljavin,Ivar J.
; APPLICANT: Napier,Mary A.
; APPLICANT: Pan,James
; APPLICANT: Paoni,Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C22
; CURRENT APPLICATION NUMBER: US/09/990,456
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 99.9%; Score 2747; DB 9; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 12
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; Patent No. US20020142961A1
; GENERAL INFORMATION:
;  APPLICANT: Ashkenazi,Avi J.
;  APPLICANT:  Baker,Kevin P.
;  APPLICANT:  Botstein,David
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Eaton,Dan L.
;  APPLICANT:  Ferrara,Napoleone
;  APPLICANT:  Fong,Sherman
;  APPLICANT:  Gerber,Hanspeter
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Grimaldi,J.Christopher
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Kljavin,Ivar J.
;  APPLICANT:  Napier,Mary A.
;  APPLICANT:  Pan,James
;  APPLICANT:  Paoni,Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Watanabe, Colin K.
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William I.
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: P2730P1C55
;  CURRENT APPLICATION NUMBER: US/09/989,721
;  CURRENT FILING DATE:  2001-11-19
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; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 99.9%; Score 2747; DB 9; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy       1741 AGATCTGCTCTGTCTGCGACACCAGATCCACGTGGGGACTCCCCTGAGGCCTGCTAAGTC 1800
Db       1741 AGATCTGCTCTGTCTGCGACACCAGATCCACGTGGGGACTCCCCTGAGGCCTGCTAAGTC 1800
Qy       1801 CAGGCCTTGGTCAGGTCAGGTGCACATTGCAGGATAAGCCCAGGACCGGCACAGAAGTGG 1860
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Db       1921 GAAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTA 1980
Qy       1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
Db       1981 GAGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACA 2040
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Db       2041 GGGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTG 2100
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Db       2101 GTAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGA 2160
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Db       2161 ATCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGG 2220
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Qy       2401 CAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTTC 2460
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Qy       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
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RESULT 13
US-09-978-295A-215
; Sequence 215, Application US/09978295A
; Patent No. US20020156006A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C11
; CURRENT APPLICATION NUMBER: US/09/978,295A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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; PRIOR APPLICATION NUMBER: 60/085573
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 99.9%; Score 2747; DB 9; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 14
US-09-992-598-516
; Sequence 516, Application US/09992598
; Patent No. US20020160384A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi,Avi J.
; APPLICANT: Baker,Kevin P.
; APPLICANT: Botstein,David
; APPLICANT: Desnoyers,Luc
; APPLICANT: Eaton,Dan L.
; APPLICANT: Ferrara,Napoleone
; APPLICANT: Fong,Sherman
; APPLICANT: Gerber,Hanspeter
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Grimaldi,J.Christopher
; APPLICANT: Gurney,Austin L.
; APPLICANT: Kljavin,Ivar J.
; APPLICANT: Napier,Mary A.
; APPLICANT: Pan,James
; APPLICANT: Paoni,Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C20
; CURRENT APPLICATION NUMBER: US/09/992,598
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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; PRIOR APPLICATION NUMBER: 60/091626
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; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 99.9%; Score 2747; DB 9; Length 2749;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy       1381 GACCCTGCCTTCCTCCCACTCCAGACCCCACCTTGTCTTCCCTCCCTGGCGTCCTCAGAC 1440
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RESULT 15
US-09-978-697-215
; Sequence 215, Application US/09978697
; Patent No. US20020169284A1
; GENERAL INFORMATION:
;  APPLICANT: Ashkenazi, Avi
;  APPLICANT:  Baker Kevin P.
;  APPLICANT:  Botstein, David
;  APPLICANT:  Desnoyers, Luc
;  APPLICANT:  Eaton, Dan
;  APPLICANT:  Ferrara, Napoleon
;  APPLICANT:  Filvaroff, Ellen
;  APPLICANT:  Fong, Sherman
;  APPLICANT:  Gao, Wei-Qiang
;  APPLICANT:  Gerber, Hanspeter
;  APPLICANT:  Gerritsen, Mary E.
;  APPLICANT:  Goddard, Audrey
;  APPLICANT:  Godowski, Paul J.
;  APPLICANT:  Grimaldi, J. Christopher
;  APPLICANT:  Gurney, Austin L.
;  APPLICANT:  Hillan, Kenneth J
;  APPLICANT:  Kljavin, Ivar J.
;  APPLICANT:  Kuo, Sophia S.
;  APPLICANT:  Napier, Mary A.
;  APPLICANT:  Pan, James;
;  APPLICANT:  Paoni, Nicholas F.
;  APPLICANT:  Roy, Margaret Ann
;  APPLICANT:  Shelton, David L.
;  APPLICANT:  Stewart, Timothy A.
;  APPLICANT:  Tumas, Daniel
;  APPLICANT:  Williams, P. Mickey
;  APPLICANT:  Wood, William I.
;  TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;  TITLE OF INVENTION:  Acids Encoding the Same
;  FILE REFERENCE: P2630P1C27
;  CURRENT APPLICATION NUMBER: US/09/978,697
;  CURRENT FILING DATE:  2001-10-16
;  PRIOR APPLICATION NUMBER: 09/918585
;  PRIOR FILING DATE: 2001-07-30
;  PRIOR APPLICATION NUMBER: 60/062250
;  PRIOR FILING DATE: 1997-10-17
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;  PRIOR FILING DATE: 1997-11-03
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; PRIOR APPLICATION NUMBER: 60/085573
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; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 99.9%; Score 2747; DB 9; Length 2749;
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Matches 2749; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db       2641 TCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTCTCTGTGTTTTACA 2700
Qy       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
Db       2701 GACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAAA 2749
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Job time : 1288 secs

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: September 13, 2004, 14:10:01 ; Search time 6221 Seconds
(without alignments)
13195.810 Million cell updates/sec

Title: US-10-017-081A-215
Perfect score: 2749
Sequence: 1 ctcccacggtgtccagcgcc.....ctgcataaaaaaaaaaaaaa 2749

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

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2: em_esthum:*
3: em_estin:*
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5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_htc:*
9: gb_est1:*
10: gb_est2:*
11: gb_htc:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
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25: em_gss_rod:*
26: em_gss_phg:*
27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	560.8	20.4	617	14	U70073	U70073 HSU70073 Hu
5	543.2	19.8	686	12	BG546890	BG546890 602574073
c 6	462.8	16.8	493	13	BX280256	BX280256 BX280256
7	417.4	15.2	644	14	CB555136	CB555136 MMSP0041_
8	414.2	15.1	438	13	BX102384	BX102384 BX102384
9	409	14.9	1201	13	BX356362	BX356362 BX356362
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11	401.4	14.6	893	14	CF994396	CF994396 AGENCOURT
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14	373.6	13.6	597	14	CB555008	CB555008 MMSP0075_
15	361.6	13.2	1749	11	AK052816	AK052816 Mus muscu
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c 18	341.2	12.4	354	9	AI208121	AI208121 qg31h03.x
c 19	302.4	11.0	487	12	BI058217	BI058217 PM0-GN049
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25	242	8.8	2310	11	AK009375	AK009375 Mus muscu
26	235.4	8.6	662	10	BB630327	BB630327 BB630327
27	228.6	8.3	814	12	BG867941	BG867941 602787178
28	226.6	8.2	381	10	BB844052	BB844052 BB844052
c 29	222	8.1	228	14	Z28836	Z28836 HSBA3F111 S
30	220.2	8.0	672	12	BI693267	BI693267 603343570
c 31	218	7.9	4125	11	BC028413	BC028413 Homo sapi
c 32	217.6	7.9	457	28	AQ030088	AQ030088 RPCI11-39
c 33	216.4	7.9	654	29	AG087678	AG087678 Pan trogl
34	214.8	7.8	587	9	AV596236	AV596236 AV596236
35	214.6	7.8	370	13	BY336615	BY336615 BY336615
36	214.2	7.8	474	10	BF605638	BF605638 272179 MA
c 37	213.8	7.8	369	13	BU536852	BU536852 AGENCOURT
38	213.4	7.8	749	14	CB962143	CB962143 AGENCOURT
c 39	212.6	7.7	564	28	AQ607196	AQ607196 HS_5326_B
40	212.6	7.7	640	14	CF128614	CF128614 UI-HF-BT0
41	212.6	7.7	910	13	BU850247	BU850247 AGENCOURT
42	212.6	7.7	915	13	BU149187	BU149187 AGENCOURT
43	212.6	7.7	924	12	BG697612	BG697612 602660853
c 44	212.4	7.7	461	13	BQ934896	BQ934896 AGENCOURT
c 45	212.4	7.7	504	28	BH152879	BH152879 UP_297-17
c 46	212.4	7.7	642	28	B59854	B59854 CIT-HSP-345
c 47	212.4	7.7	648	28	BZ611349	BZ611349 WHAAO01TR
c 48	212.2	7.7	645	14	CK001378	CK001378 AGENCOURT
c 49	212.2	7.7	1201	13	BX402079	BX402079 BX402079
c 50	212	7.7	467	12	BG759692	BG759692 602713385
51	212	7.7	567	10	BE749669	BE749669 200692 MA
52	212	7.7	581	12	BI898476	BI898476 479399 MA
53	211.8	7.7	437	28	AQ774179	AQ774179 HS_2050_B
54	211.8	7.7	629	13	BX507857	BX507857 DKFZp686D
c 55	211.8	7.7	716	29	AG101592	AG101592 Pan trogl
c 56	211.6	7.7	521	10	AW970571	AW970571 EST382652
57	211.6	7.7	558	12	BM710116	BM710116 UI-E-CQ1-
58	211.6	7.7	759	13	BQ436286	BQ436286 AGENCOURT
c 59	211.4	7.7	1201	9	AL524675	AL524675 AL524675
60	211.2	7.7	544	13	BX113557	BX113557 BX113557
c 61	211	7.7	526	10	BE069140	BE069140 QV3-BT037
c 62	211	7.7	619	13	BX487254	BX487254 DKFZp686P
63	210.8	7.7	416	28	AQ140695	AQ140695 HS_3112_A
c 64	210.6	7.7	808	28	BZ611126	BZ611126 WHADL87TF
65	210.4	7.7	447	13	BX489032	BX489032 DKFZp686L
c 66	210.4	7.7	711	28	AQ415030	AQ415030 RPCI-11-2
67	210	7.6	460	28	AQ003866	AQ003866 CIT-HSP-2
68	210	7.6	556	28	AQ800806	AQ800806 HS_5299_A
c 69	209.8	7.6	590	28	AQ588588	AQ588588 CITBI-E1-
c 70	209.6	7.6	352	10	BF804385	BF804385 QV4-CI015
71	209.6	7.6	688	29	AG118999	AG118999 Pan trogl
72	209.6	7.6	862	13	BX456640	BX456640 BX456640
73	209.6	7.6	917	14	CD558585	CD558585 AGENCOURT
c 74	209.6	7.6	946	12	BG335756	BG335756 602404452
c 75	209.4	7.6	341	13	BU601759	BU601759 AGENCOURT
76	209.4	7.6	917	13	BU153359	BU153359 AGENCOURT
77	209.4	7.6	1035	13	BQ217751	BQ217751 AGENCOURT

c	78	209.4	7.6	3491	11	BC039100 BC039100 Homo sapi
c	79	209.2	7.6	416	14	CD520893 AGENCOURT
c	80	209.2	7.6	429	28	AQ090219 AQ090219 HS_3009_A
c	81	209	7.6	519	28	AQ427907 AQ427907 CITBI-E1-
	82	208.8	7.6	660	12	BM823453 BM823453 K-EST0094
c	83	208.8	7.6	676	13	BU685838 BU685838 UI-CF-DU1
c	84	208.6	7.6	575	28	AQ587429 AQ587429 CITBI-E1-
c	85	208.6	7.6	624	10	BF854308 BF854308 MR2-EN009
c	86	208.4	7.6	452	14	CD238203 CD238203 FNPAXC06
c	87	208.4	7.6	460	28	B15692 B15692 345N8.TP CI
c	88	208.4	7.6	636	28	AQ266645 AQ266645 RPCI11-74
c	89	208.4	7.6	689	29	AG117797 AG117797 Pan trogl
	90	208.4	7.6	694	14	CF124970 CF124970 UI-HF-EL0
	91	208.4	7.6	900	13	BQ222242 BQ222242 AGENCOURT
	92	208.2	7.6	580	13	BU680637 BU680637 UI-CF-DU1
	93	208.2	7.6	581	14	CF890754 CF890754 UI-CF-DU1
c	94	208	7.6	546	28	AQ394221 AQ394221 CITBI-E1-
c	95	208	7.6	588	13	BX488003 BX488003 DKFZp686H
	96	208	7.6	663	9	AV713052 AV713052 AV713052
c	97	208	7.6	782	12	BG743198 BG743198 602634360
	98	207.8	7.6	409	28	AQ129174 AQ129174 HS_3039_A
	99	207.8	7.6	570	13	BQ086265 BQ086265 ij20e04.y
	100	207.8	7.6	644	28	AZ520273 AZ520273 RPCI-11-1
c	101	207.6	7.6	461	9	AI343144 AI343144 tb02g08.x
	102	207.6	7.6	639	28	AQ377619 AQ377619 RPCI11-16
	103	207.6	7.6	751	28	AQ788367 AQ788367 HS_3135_A
	104	207.4	7.5	429	9	AI539822 AI539822 tp57c04.x
	105	207.4	7.5	506	12	BM999650 BM999650 UI-H-DI0-
	106	207.2	7.5	365	13	BY338634 BY338634
c	107	207.2	7.5	583	14	CF886972 CF886972 UI-CF-DU1
c	108	207	7.5	782	12	BG741134 BG741134 602631696
c	109	206.8	7.5	318	13	BU531754 AGENCOURT
c	110	206.6	7.5	550	28	AQ082524 AQ082524 RPCI11-56
c	111	206.6	7.5	708	29	AG167958 AG167958 Pan trogl
c	112	206.6	7.5	1201	13	BX357932 BX357932
c	113	206.4	7.5	322	13	BU960058 BU960058 AGENCOURT
	114	206.4	7.5	560	9	AU159329 AU159329 AU159329
	115	206.2	7.5	475	28	AQ115050 CIT-HSP-2
c	116	206.2	7.5	514	28	AQ277888 AQ277888 CITBI-E1-
c	117	206.2	7.5	551	9	AV756491 AV756491 AV756491
c	118	206.2	7.5	575	9	AL692058 AL692058 DKFZp313M
c	119	206	7.5	390	13	BU588888 BU588888 AGENCOURT
	120	206	7.5	406	9	AL708766 AL708766 DKFZp686C
	121	206	7.5	455	9	AA904211 AA904211 od88e02.s
	122	206	7.5	585	14	CA445450 CA445450 UI-H-ED0-
c	123	206	7.5	656	29	AG065096 AG065096 Pan trogl
c	124	206	7.5	1273	8	BC011712 Bc011712 Homo sapi
c	125	205.8	7.5	352	9	AW089016 AW089016 xd34d02.x
	126	205.8	7.5	501	13	BX485916 BX485916 DKFZp686E
	127	205.8	7.5	655	14	CA439825 CA439825 UI-H-DI0-
c	128	205.8	7.5	703	29	CG876931 CG876931 HSC 00970
	129	205.6	7.5	901	28	AQ787823 AQ787823 HS_3072_A
c	130	205.4	7.5	392	14	CB296710 12B22058
c	131	205.4	7.5	426	28	B51003 B51003 CIT978SK-24
c	132	205.4	7.5	570	28	AQ425937 AQ425937 CITBI-E1-
	133	205.4	7.5	691	29	AG012178 AG012178 Homo sapi
c	134	205.4	7.5	702	29	AG012190 AG012190 Homo sapi
c	135	205.4	7.5	1987	11	AF289581 AF289581 Homo sapi
	136	205.2	7.5	600	28	AQ075668 AQ075668 CIT-HSP-2
	137	205.2	7.5	688	13	BX108850 BX108850 BX108850
c	138	205.2	7.5	690	28	AQ415537 AQ415537 RPCI-11-1
c	139	205	7.5	568	14	CD517289 CD517289 AGENCOURT
	140	205	7.5	852	13	BQ690945 BQ690945 AGENCOURT
c	141	204.8	7.4	416	10	BE062476 BE062476 QV4-BT025
c	142	204.8	7.4	456	28	AQ588222 AQ588222 CITBI-E1-
c	143	204.8	7.4	478	9	AA706495 AA706495 ag89g03.r
c	144	204.8	7.4	504	28	AQ504791 AQ504791 RPCI-11-3
	145	204.8	7.4	597	14	CB268731 1007637 H
	146	204.8	7.4	955	13	BX390801 BX390801 BX390801
c	147	204.8	7.4	1538	10	BG036370 BG036370 602326675
c	148	204.6	7.4	321	14	CD357555 AGENCOURT
	149	204.6	7.4	351	9	AA878492 AA878492 oe15b12.s
c	150	204.6	7.4	412	10	BE062478 BE062478 QV4-BT025
	151	204.6	7.4	459	28	AQ474879 AQ474879 CITBI-E1-
	152	204.4	7.4	490	28	AQ124226 AQ124226 HS_3122_B
	153	204.4	7.4	529	10	BF918946 BF918946 QV0-NT014
c	154	204.4	7.4	543	28	BZ607755 BZ607755 WHABI95TR
c	155	204.4	7.4	549	28	AQ541959 AQ541959 RPCI-11-3
	156	204.4	7.4	588	12	BG910226 BG910226 602805702
c	157	204.4	7.4	674	29	AG147374 AG147374 Pan trogl
c	158	204.4	7.4	922	12	BG541111 BG541111 602570278
	159	204.4	7.4	1179	10	BF795891 BF795891 602259133
	160	204.2	7.4	460	28	AQ537631 AQ537631 RPCI-11-3
c	161	204.2	7.4	487	14	CA772578 CA772578 io82b10.y
c	162	204.2	7.4	524	12	BM310899 BM310899 ig50b09.y
c	163	204.2	7.4	588	14	CA941982 CA941982 ir44e09.y
	164	204.2	7.4	1086	12	BM471758 BM471758 AGENCOURT
	165	204.2	7.4	1250	11	BC016813 BC016813 Homo sapi
c	166	204	7.4	356	9	AA668587 AA668587 ac44g09.s
c	167	204	7.4	470	9	AA456924 AA456924 aa90b09.s
	168	204	7.4	623	14	CB154393 CB154393 K-EST0212
	169	204	7.4	639	13	BQ775305 BQ775305 UI-H-FH0-
c	170	204	7.4	784	28	AQ738890 AQ738890 HS_5382_B
	171	204	7.4	843	10	BE746531 BE746531 601579491
	172	204	7.4	970	10	BE744116 BE744116 601577057
c	173	203.8	7.4	319	13	BU933623 BU933623 AGENCOURT
c	174	203.8	7.4	338	9	AW023111 AW023111 df49d08.y
c	175	203.8	7.4	611	9	AL709223 AL709223 DKFZp686F
	176	203.8	7.4	1270	11	BC016019 BC016019 Homo sapi
	177	203.6	7.4	455	9	AI627614 AI627614 ty18g06.x
	178	203.6	7.4	524	28	AQ314507 AQ314507 RPCI11-10
c	179	203.6	7.4	748	28	AQ469371 AQ469371 CITBI-E1-
c	180	203.6	7.4	779	28	AQ739207 AQ739207 HS_5382_B
	181	203.6	7.4	911	13	BQ719276 BQ719276 AGENCOURT
	182	203.4	7.4	359	28	AQ628676 AQ628676 RPCI-11-4
c	183	203.4	7.4	505	9	AI922231 AI922231 wn89h09.x
	184	203.4	7.4	569	28	AZ518762 AZ518762 RPCI-11-9
	185	203.4	7.4	678	28	AQ585846 AQ585846 RPCI-11-4
	186	203.4	7.4	705	28	AZ383211 AZ383211 1M0140H17
c	187	203.4	7.4	727	10	AW963663 AW963663 EST375736
c	188	203.4	7.4	782	28	BZ609423 BZ609423 WHADE51TR
c	189	203.4	7.4	962	10	BE883679 BE883679 601507363
c	190	203.4	7.4	2509	11	BC036220 BC036220 Homo sapi
c	191	203.2	7.4	624	28	AQ315190 AQ315190 RPCI11-10
c	192	203.2	7.4	677	12	BI858435 BI858435 603386450
c	193	203.2	7.4	678	28	AQ387027 AQ387027 RPCI11-15
c	194	203.2	7.4	749	28	AQ346318 AQ346318 RPCI11-10
	195	203.2	7.4	767	29	AG173154 AG173154 Pan trogl
	196	203.2	7.4	797	14	CB312345 CB312345 AGENCOURT
c	197	203.2	7.4	858	12	BG393677 BG393677 602412095
c	198	203.2	7.4	1638	11	BC015230 BC015230 Homo sapi
c	199	203	7.4	313	12	BI115748 BI115748 602866202
	200	203	7.4	388	9	AW069227 AW069227 cr41h09.x
	201	203	7.4	461	9	AA225406 AA225406 nc24d02.r
	202	203	7.4	472	12	BM983330 BM983330 UI-CF-DU1
c	203	203	7.4	537	28	AQ460053 AQ460053 HS_5123_B
	204	203	7.4	584	28	AQ319301 AQ319301 RPCI11-98
	205	203	7.4	597	29	AG160827 AG160827 Pan trogl
	206	203	7.4	644	29	AG133201 AG133201 Pan trogl
c	207	203	7.4	676	29	AG075207 AG075207 Pan trogl
c	208	203	7.4	704	10	BE787136 BE787136 601476688
c	209	203	7.4	788	28	BZ597804 BZ597804 WHAAQ49TF
c	210	203	7.4	853	28	AQ742500 AQ742500 HS_5383_B
c	211	202.8	7.4	345	9	AA579427 AA579427 nf37c10.s
	212	202.8	7.4	430	28	B89285 B89285 CIT-HSP-217
c	213	202.8	7.4	444	9	AL706892 AL706892 DKFZp686P
c	214	202.8	7.4	521	12	BI870607 BI870607 603394094
c	215	202.8	7.4	566	28	AQ346062 AQ346062 RPCI11-12
c	216	202.8	7.4	597	9	AV762633 AV762633 AV762633
	217	202.8	7.4	641	29	AG079518 AG079518 Pan trogl
c	218	202.8	7.4	669	29	AG182560 AG182560 Pan trogl
c	219	202.8	7.4	841	28	AQ751701 AQ751701 HS_5568_B
c	220	202.8	7.4	867	13	BQ711369 BQ711369 AGENCOURT
c	221	202.8	7.4	898	13	BX389099 BX389099
	222	202.6	7.4	362	13	BY338960 BY338960 BY338960
	223	202.6	7.4	430	28	AQ240927 AQ240927 CIT-HSP-2

c 224	202.6	7.4	438	13	BX472117	BX472117 DKFZp686G
c 225	202.6	7.4	452	10	BF725761	BF725761 bx19e11.y
c 226	202.6	7.4	536	12	BQ023261	BQ023261 UI-1-BB1p
c 227	202.6	7.4	538	13	BX479164	BX479164 DKFZp686E
228	202.6	7.4	701	9	AV732578	AV732578 AV732578
c 229	202.6	7.4	714	29	AG050668	AG050668 Pan trogl
c 230	202.6	7.4	760	10	BF671827	BF671827 602151716
c 231	202.6	7.4	960	13	BU587497	BU587497 AGENCOURT
232	202.4	7.4	365	14	T47138	T47138 yb52g10.s1
233	202.4	7.4	511	13	BU752760	BU752760 UI-1-BC0-
234	202.4	7.4	673	29	AG124887	AG124887 Pan trogl
c 235	202.4	7.4	735	14	CF146929	CF146929 UI-HF-CB0
c 236	202.2	7.4	409	10	BE138594	BE138594 xr77h01.x
c 237	202.2	7.4	423	12	BM991096	BM991096 UI-H-DI0-
238	202.2	7.4	440	13	BX487270	BX487270 DKFZp686B
239	202.2	7.4	453	10	BF725844	BF725844 bx20f10.x
c 240	202.2	7.4	462	29	AG020159	AG020159 Homo sapi
c 241	202.2	7.4	566	14	CB307969	CB307969 AGENCOURT
c 242	202.2	7.4	581	28	AQ347610	AQ347610 RPCI11-12
243	202.2	7.4	597	10	AW575809	AW575809 UI-HF-BN0
c 244	202.2	7.4	604	28	AQ628417	AQ628417 CITBI-E1-
245	202.2	7.4	646	29	AG037586	AG037586 Pan trogl
c 246	202.2	7.4	870	13	BX327104	BX327104 BX327104
c 247	202.2	7.4	903	13	BX455060	BX455060 BX455060
c 248	202	7.3	532	28	AQ019256	AQ019256 CIT-HSP-2
c 249	202	7.3	544	14	CA396579	CA396579 cs79f06.y
250	202	7.3	685	28	AQ312176	AQ312176 RPCI11-10
c 251	202	7.3	688	28	BZ413191	BZ413191 HSC 00387
c 252	202	7.3	745	14	CB308838	CB308838 AGENCOURT
253	201.8	7.3	359	28	AQ582450	AQ582450 RPCI-11-4
c 254	201.8	7.3	365	14	CD688147	CD688147 EST4669 h
c 255	201.8	7.3	424	28	AQ113643	AQ113643 CIT-HSP-2
c 256	201.8	7.3	453	9	AI922224	AI922224 wn89g09.x
257	201.8	7.3	493	13	BX499277	BX499277 DKFZp779J
c 258	201.8	7.3	517	13	BU541876	BU541876 AGENCOURT
259	201.8	7.3	524	28	AZ518765	AZ518765 RPCI-11-9
c 260	201.8	7.3	536	9	AL709434	AL709434 DKFZp686B
261	201.6	7.3	342	13	BX484854	BX484854 DKFZp686L
262	201.6	7.3	406	9	AI923052	AI923052 wn24f12.x
263	201.6	7.3	417	9	AI625604	AI625604 ty56g01.x
264	201.6	7.3	454	9	AI634187	AI634187 ts55a08.x
265	201.6	7.3	478	12	BI495133	BI495133 df115c09.
266	201.6	7.3	505	12	BI492107	BI492107 df19e12.w
c 267	201.6	7.3	506	9	AW022934	AW022934 df46b05.y
c 268	201.6	7.3	506	12	BI495134	BI495134 df115c09.
269	201.6	7.3	584	13	BU657179	BU657179 cl21b06.z
c 270	201.6	7.3	656	12	BG546809	BG546809 602574182
271	201.6	7.3	857	14	CB997964	CB997964 AGENCOURT
c 272	201.6	7.3	941	12	BM051215	BM051215 603634163
273	201.4	7.3	398	13	BX484839	BX484839 DKFZp686K
274	201.4	7.3	434	13	BQ181725	BQ181725 UI-H-EU0-
c 275	201.4	7.3	457	28	AQ232428	AQ232428 HS_2026_A
276	201.4	7.3	460	9	AI755057	AI755057 cr34h01.x
277	201.4	7.3	482	13	BU735500	BU735500 UI-E-DW0-
c 278	201.4	7.3	493	10	BF854090	BF854090 MR2-EN009
c 279	201.4	7.3	591	28	AQ884892	AQ884892 HS_5518_A
c 280	201.4	7.3	593	13	BX475865	BX475865 DKFZp686A
281	201.4	7.3	599	28	AQ350713	AQ350713 RPCI11-11
c 282	201.4	7.3	670	29	AG174694	AG174694 Pan trogl
c 283	201.4	7.3	694	29	AG172896	AG172896 Pan trogl
c 284	201.4	7.3	698	14	CF146894	CF146894 UI-HF-CB0
c 285	201.4	7.3	700	29	AG013777	AG013777 Homo sapi
c 286	201.4	7.3	710	28	AQ041598	AQ041598 CIT-HSP-2
287	201.4	7.3	988	13	BU145606	BU145606 AGENCOURT
c 288	201.4	7.3	1063	12	BM476473	BM476473 AGENCOURT
289	201.2	7.3	307	9	AA523695	AA523695 ni50b08.s
290	201.2	7.3	430	9	AL120282	AL120282 DKFZp761M
291	201.2	7.3	550	10	BF918961	BF918961 QV0-NT014
c 292	201.2	7.3	677	29	AG167176	AG167176 Pan trogl
293	201.2	7.3	721	28	BZ601434	BZ601434 WHAAT41TF
294	201.2	7.3	722	28	BZ603932	BZ603932 WHADR92TF
c 295	201.2	7.3	757	28	AQ528478	AQ528478 RPCI-11-3
c 296	201.2	7.3	852	12	BG115297	BG115297 602316249
297	201.2	7.3	907	28	AQ748286	AQ748286 HS_5535_A
c 298	201.2	7.3	985	9	AL044339	AL044339 DKFZp434A
c 299	201.2	7.3	1092	14	CK232221	CK232221 ILLUMIGEN
300	201	7.3	407	12	BG943749	BG943749 ax41e07.x
301	201	7.3	428	9	AV746152	AV746152 AV746152
c 302	201	7.3	448	28	AQ571525	AQ571525 HS_5370_B
c 303	201	7.3	493	10	BF769368	BF769368 RC3-IT001
304	201	7.3	561	13	BX492948	BX492948 DKFZp781E
c 305	201	7.3	608	28	AQ421434	AQ421434 RPCI-11-1
306	201	7.3	633	13	BX480642	BX480642 DKFZp686I
307	201	7.3	717	29	AG080871	AG080871 Pan trogl
c 308	201	7.3	727	28	BZ603823	BZ603823 WHAAR71TF
309	201	7.3	772	28	BZ715450	BZ715450 HSC 00457
c 310	201	7.3	860	12	BI084902	BI084902 602869474
311	201	7.3	1016	13	BQ674146	BQ674146 AGENCOURT
312	200.8	7.3	452	14	T74524	T74524 yc83c08.r1
313	200.8	7.3	551	12	BM994798	BM994798 UI-H-DH0-
c 314	200.8	7.3	598	14	CD242461	CD242461 AGENCOURT
c 315	200.8	7.3	601	14	CF147171	CF147171 UI-HF-CB0
316	200.8	7.3	613	12	BM722009	BM722009 UI-E-EO0-
c 317	200.8	7.3	671	28	AQ426599	AQ426599 CITBI-E1-
318	200.8	7.3	686	10	BE888976	BE888976 601513907
319	200.8	7.3	712	12	BM998934	BM998934 UI-H-DI0-
c 320	200.8	7.3	718	12	BM683112	BM683112 UI-E-EO1-
321	200.6	7.3	379	14	H29511	H29511 ym60e09.s1
c 322	200.6	7.3	386	9	AA828619	AA828619 od79c01.s
c 323	200.6	7.3	443	28	AQ082191	AQ082191 RPCI11-55
324	200.6	7.3	465	12	BM853838	BM853838 K-EST0135
c 325	200.6	7.3	496	10	AW512196	AW512196 xx71e04.x
c 326	200.6	7.3	515	28	AQ275812	AQ275812 CITBI-E1-
c 327	200.6	7.3	516	9	AL449689	AL449689 AL449689
c 328	200.6	7.3	528	9	AW021161	AW021161 df19e12.y
329	200.6	7.3	544	10	BF939548	BF939548 nac78d08.
330	200.6	7.3	555	14	CD701897	CD701897 EST18421
c 331	200.6	7.3	638	28	AZ516769	AZ516769 RPCI-11-4
c 332	200.6	7.3	669	28	B91772	B91772 CIT-HSP-216
333	200.6	7.3	736	28	AQ236606	AQ236606 RPCI11-71
c 334	200.6	7.3	1084	12	BG259319	BG259319 602378378
335	200.4	7.3	441	14	T50676	T50676 yb31c07.s1
336	200.4	7.3	448	28	AQ634562	AQ634562 RPCI-11-4
c 337	200.4	7.3	455	28	AQ037381	AQ037381 CIT-HSP-2
338	200.4	7.3	466	10	AW272294	AW272294 xu17c12.x
339	200.4	7.3	485	9	AI523316	AI523316 ar71f11.x
c 340	200.4	7.3	486	10	AW958962	AW958962 EST371032
c 341	200.4	7.3	546	12	BM697526	BM697526 UI-E-DX0-
342	200.4	7.3	578	10	BE150793	BE150793 RC2-HT027
c 343	200.4	7.3	642	28	AQ508044	AQ508044 RPCI-11-2
c 344	200.4	7.3	650	14	CK023824	CK023824 AGENCOURT
c 345	200.4	7.3	736	14	CD237958	CD237958 FNPARH11
346	200.4	7.3	836	28	AQ781745	AQ781745 HS_3122_A
347	200.2	7.3	409	28	AQ628682	AQ628682 RPCI-11-4
c 348	200.2	7.3	444	28	AQ056873	AQ056873 CIT-HSP-2
c 349	200.2	7.3	481	9	AL711996	AL711996 DKFZp686A
350	200.2	7.3	502	28	BZ608984	BZ608984 WHAAH62TF
c 351	200.2	7.3	511	12	BM353779	BM353779 ig56a11.y
352	200.2	7.3	611	14	CA777462	CA777462 ip20e03.x
353	200.2	7.3	673	29	AG046383	AG046383 Pan trogl
c 354	200.2	7.3	694	29	AG013776	AG013776 Homo sapi
c 355	200.2	7.3	698	29	AG166705	AG166705 Pan trogl
356	200.2	7.3	703	28	BZ605956	BZ605956 WHACJ31TR
357	200.2	7.3	706	12	BM989586	BM989586 UI-H-DH0-
358	200.2	7.3	948	9	AL133834	AL133834 DKFZp761D
c 359	200.2	7.3	950	14	CD558421	CD558421 AGENCOURT
360	200	7.3	405	12	BM506720	BM506720 ih24e08.x
361	200	7.3	413	9	AA714011	AA714011 nw18d11.s
c 362	200	7.3	436	14	CK002447	CK002447 AGENCOURT
c 363	200	7.3	445	9	AI924954	AI924954 wn26b08.x
364	200	7.3	477	12	BI063940	BI063940 IL3-UT011
c 365	200	7.3	548	28	AQ469660	AQ469660 CITBI-E1-
c 366	200	7.3	591	28	AQ476716	AQ476716 CITBI-E1-
367	200	7.3	598	13	BU783147	BU783147 in03f12.x
c 368	200	7.3	602	13	BU657458	BU657458 cl24e02.z
369	200	7.3	606	13	BX482182	BX482182 DKFZp686G

	370	200	7.3	613	13	BQ267894 BQ267894 ij95h11.x
c	371	200	7.3	781	13	BU852976 BU852976 AGENCOURT
c	372	200	7.3	788	12	BG108021 BG108021 602279942
c	373	200	7.3	800	13	BQ435699 BQ435699 AGENCOURT
c	374	200	7.3	896	28	AQ738849 HS_5386_B
c	375	200	7.3	1100	12	BM802793 BM802793 AGENCOURT
	376	200	7.3	2731	11	BC013209 BC013209 Homo sapi
	377	199.8	7.3	461	28	B74835 B74835 CIT-HSP-204
	378	199.8	7.3	481	13	BX503957 BX503957 DKFZp686G
c	379	199.8	7.3	536	13	BQ887587 BQ887587 AGENCOURT
	380	199.8	7.3	553	28	AQ481091 RPCI-11-2
c	381	199.8	7.3	614	12	BI061452 BI061452 IL3-UT011
c	382	199.8	7.3	690	13	BX504717 BX504717 DKFZp686F
c	383	199.8	7.3	739	28	AQ200209 RPCI11-45
c	384	199.8	7.3	819	9	AU130446 AU130446 AU130446
c	385	199.8	7.3	864	12	BG682030 BG682030 602629995
c	386	199.8	7.3	983	13	BX415795 BX415795
	387	199.6	7.3	441	28	B80074 B80074 CIT-HSP-204
c	388	199.6	7.3	481	13	BX506029 BX506029 DKFZp686B
	389	199.6	7.3	551	28	AQ352725 CITBI-E1-
	390	199.6	7.3	590	28	AQ421062 RPCI-11-1
c	391	199.6	7.3	649	28	AQ080891 AQ080891 CIT-HSP-2
c	392	199.6	7.3	738	10	BF527070 602039986
	393	199.6	7.3	791	12	BM015136 BM015136 603641124
	394	199.4	7.3	364	10	AW972963 AW972963 EST385060
	395	199.4	7.3	397	14	CA434241 CA434241 UI-H-DI0-
	396	199.4	7.3	449	9	AW084100 AW084100 xc37b11.x
	397	199.4	7.3	489	28	AQ480399 AQ480399 RPCI-11-2
	398	199.4	7.3	507	28	AQ785164 HS_3159_A
	399	199.4	7.3	512	28	AQ587897 CITBI-E1-
	400	199.4	7.3	530	9	AL704074 AL704074 DKFZp686O
c	401	199.4	7.3	605	28	AQ347764 RPCI11-13
	402	199.4	7.3	639	14	CA423358 CA423358 UI-H-FL0-
	403	199.4	7.3	660	29	AG157820 AG157820 Pan trogl
c	404	199.4	7.3	661	28	AQ061162 CIT-HSP-2
c	405	199.4	7.3	738	12	BG527374 BG527374 602557360
	406	199.4	7.3	808	12	BG432758 BG432758 602496155
	407	199.4	7.3	898	13	BQ673405 BQ673405 AGENCOURT
	408	199.4	7.3	916	13	BQ673918 BQ673918 AGENCOURT
	409	199.4	7.3	954	13	BQ671774 BQ671774 AGENCOURT
	410	199.4	7.3	2247	11	AF116727 AF116727 Homo sapi
	411	199.2	7.2	492	12	BM758113 BM758113 K-EST0037
	412	199.2	7.2	568	28	AQ791303 AQ791303 HS_4555_B
	413	199.2	7.2	589	9	AL706032 AL706032 DKFZp686I
	414	199.2	7.2	642	29	AG083883 AG083883 Pan trogl
c	415	199.2	7.2	654	14	CK003802 CK003802 AGENCOURT
c	416	199.2	7.2	678	28	AQ319737 RPCI11-11
	417	199.2	7.2	747	13	BX645938 BX645938 DKFZp781C
	418	199.2	7.2	770	13	BU963762 BU963762 AGENCOURT
	419	199.2	7.2	820	28	AQ748794 HS_5574_A
c	420	199.2	7.2	878	13	BX389068 BX389068 BX389068
	421	199.2	7.2	962	13	BX451905 BX451905 BX451905
c	422	199	7.2	334	14	CB296690 CB296690 12B22041_
	423	199	7.2	472	28	AQ232679 AQ232679 HS_2026_A
c	424	199	7.2	528	12	BI062952 BI062952 IL3-UT011
c	425	199	7.2	530	28	AQ356790 CITBI-E1-
c	426	199	7.2	570	13	BX471065 BX471065 DKFZp686D
	427	199	7.2	588	10	BE969845 BE969845 601679417
c	428	199	7.2	590	14	CD707806 CD707806 EST24333
	429	199	7.2	608	12	BM992765 BM992765 UI-H-DT0-
c	430	199	7.2	627	12	BI062936 BI062936 IL3-UT011
c	431	199	7.2	702	29	AG120421 AG120421 Pan trogl
c	432	199	7.2	734	29	AG011051 AG011051 Homo sapi
c	433	199	7.2	864	12	BG110162 BG110162 602279794
c	434	199	7.2	917	13	BU174148 BU174148 AGENCOURT
c	435	199	7.2	926	14	CD245029 CD245029 AGENCOURT
	436	199	7.2	1423	11	AF113009 AF113009 Homo sapi
	437	198.8	7.2	353	9	AA558404 AA558404 nl50g06.s
c	438	198.8	7.2	456	10	AW897556 AW897556 CM3-NN005
	439	198.8	7.2	474	9	AI457313 AI457313 tl73a05.x
	440	198.8	7.2	475	28	AQ429065 CITBI-E1-
	441	198.8	7.2	477	13	BU660913 BU660913 cl65h02.z
	442	198.8	7.2	480	9	AI635028 AI635028 tz03d06.x
c	443	198.8	7.2	494	28	AQ496959 AQ496959 HS_3044_B
c	444	198.8	7.2	501	28	AQ140067 AQ140067 HS_3108_A
	445	198.8	7.2	551	28	AQ336961 AQ336961 HS_5019_B
	446	198.8	7.2	582	9	AI923451 AI923451 wn85g04.x
c	447	198.8	7.2	638	12	BG500685 BG500685 602547078
c	448	198.8	7.2	656	29	AG063316 AG063316 Pan trogl
	449	198.8	7.2	659	13	BU660648 BU660648 cl62f05.z
c	450	198.8	7.2	666	29	AG089378 AG089378 Pan trogl
	451	198.8	7.2	693	28	AZ081997 AZ081997 HSC 00095
c	452	198.8	7.2	714	29	AG009651 AG009651 Homo sapi
c	453	198.8	7.2	742	28	AQ751271 HS_5574_B
c	454	198.8	7.2	768	9	AU130442 AU130442 AU130442
c	455	198.8	7.2	1200	13	BX437750 BX437750 BX437750
c	456	198.6	7.2	318	13	BU536535 AGENCOURT
	457	198.6	7.2	358	13	BY339583 BY339583 BY339583
	458	198.6	7.2	441	9	AA441810 AA441810 zw62e02.s
	459	198.6	7.2	442	10	BE043997 BE043997 hk83c11.x
	460	198.6	7.2	451	28	B65846 B65846 CIT-HSP-202
c	461	198.6	7.2	539	28	AQ394926 AQ394926 CITBI-E1-
c	462	198.6	7.2	553	28	AQ772797 HS_3045_B
	463	198.6	7.2	560	28	AQ322702 AQ322702 RPCI11-10
	464	198.6	7.2	582	10	AW965633 AW965633 EST377706
c	465	198.6	7.2	606	12	BI596369 BI596369 603243096
c	466	198.6	7.2	625	13	BU596147 BU596147 AGENCOURT
c	467	198.6	7.2	640	29	AG161080 AG161080 Pan trogl
c	468	198.6	7.2	655	29	AG087422 AG087422 Pan trogl
c	469	198.6	7.2	661	29	AG152420 AG152420 Pan trogl
c	470	198.6	7.2	681	28	AQ543621 AQ543621 RPCI-11-3
c	471	198.6	7.2	688	9	AV715310 AV715310 AV715310
c	472	198.6	7.2	705	29	AG173490 AG173490 Pan trogl
c	473	198.6	7.2	764	28	AQ744981 AQ744981 HS_5501_A
c	474	198.6	7.2	812	13	BU561498 BU561498 AGENCOURT
c	475	198.6	7.2	855	12	BG716110 BG716110 602677563
c	476	198.6	7.2	859	28	AQ746971 AQ746971 HS_5538_A
c	477	198.6	7.2	935	10	BF968880 BF968880 602270854
c	478	198.6	7.2	1192	11	BC037942 BC037942 Homo sapi
	479	198.4	7.2	380	28	AQ632955 AQ632955 RPCI-11-4
c	480	198.4	7.2	416	12	BM999659 BM999659 UI-H-DI0-
	481	198.4	7.2	424	9	AA757661 AA757661 zg36g02.s
	482	198.4	7.2	439	9	AL700926 AL700926 DKFZp686O
	483	198.4	7.2	461	28	B65075 B65075 CIT-HSP-201
c	484	198.4	7.2	475	28	B81885 B81885 RPCI11-17P6
	485	198.4	7.2	489	28	AQ357286 AQ357286 CITBI-E1-
c	486	198.4	7.2	506	12	BM844232 BM844232 K-EST0122
c	487	198.4	7.2	521	12	BM841612 BM841612 K-EST0118
c	488	198.4	7.2	543	12	BG250044 BG250044 602362129
c	489	198.4	7.2	585	28	AQ382433 AQ382433 RPCI11-16
c	490	198.4	7.2	596	9	AV759149 AV759149 AV759149
c	491	198.4	7.2	601	13	BU940318 BU940318 AGENCOURT
	492	198.4	7.2	610	13	BU737894 BU737894 UI-E-DW1-
c	493	198.4	7.2	669	14	CK005841 CK005841 AGENCOURT
c	494	198.4	7.2	671	29	CC470869 CC470869 HSC 0577
c	495	198.4	7.2	715	29	AG177973 AG177973 Pan trogl
	496	198.4	7.2	720	14	CB962874 CB962874 AGENCOURT
	497	198.4	7.2	738	14	CB984727 CB984727 AGENCOURT
	498	198.4	7.2	837	28	BZ603730 BZ603730 WHAAK21TF
c	499	198.4	7.2	840	13	BX457023 BX457023 BX457023
c	500	198.4	7.2	866	28	AQ782204 AQ782204 HS_3176_B
	501	198.4	7.2	920	10	BG034591 BG034591 602302723
	502	198.4	7.2	939	13	BX431534 BX431534 BX431534
	503	198.4	7.2	1027	13	BQ070852 BQ070852 AGENCOURT
	504	198.4	7.2	1036	13	BQ070834 BQ070834 AGENCOURT
	505	198.4	7.2	3575	11	BC035181 BC035181 Homo sapi
	506	198.2	7.2	400	9	AI300054 AI300054 qn54c05.x
c	507	198.2	7.2	428	9	AI560085 AI560085 tp12e02.x
c	508	198.2	7.2	442	14	N57681 N57681 yv54h04.s1
c	509	198.2	7.2	444	28	AQ225387 AQ225387 HS_2003_B
c	510	198.2	7.2	448	28	AQ424402 CITBI-E1-
	511	198.2	7.2	494	12	BI063166 BI063166 IL3-UT011
	512	198.2	7.2	495	28	AQ408465 AQ408465 HS_5131_A
	513	198.2	7.2	515	13	BU728920 BU728920 UI-E-CQ1-
c	514	198.2	7.2	532	12	BG830539 BG830539 602767127
	515	198.2	7.2	532	12	BM750340 BM750340 K-EST0025

	516	198.2	7.2	534	28	AQ632281 AQ632281 RPCI-11-4
c	517	198.2	7.2	554	28	AQ486777 AQ486777 RPCI-11-2
	518	198.2	7.2	556	14	CD722486 CD722486 oj10c12.y
	519	198.2	7.2	562	28	AQ792364 AQ792364 HS_5255_B
c	520	198.2	7.2	651	14	CA393658 CA393658 cs40h05.y
	521	198.2	7.2	651	14	CK004811 CK004811 AGENCOURT
c	522	198.2	7.2	668	29	AG016182 AG016182 Homo sapi
c	523	198.2	7.2	685	14	CA438814 CA438814 UI-H-DH0-
	524	198.2	7.2	693	28	AQ391290 AQ391290 CITBI-E1-
	525	198.2	7.2	696	14	CA428208 CA428208 UI-H-DF0-
	526	198.2	7.2	706	29	AG098897 AG098897 Pan trogl
	527	198.2	7.2	712	12	BI752166 BI752166 603022244
	528	198.2	7.2	754	28	BZ612108 BZ612108 WHACN02TF
c	529	198.2	7.2	800	9	AV755512 AV755512 AV755512
	530	198.2	7.2	891	14	CD300637 CD300637 AGENCOURT
c	531	198.2	7.2	922	13	BU501973 BU501973 AGENCOURT
c	532	198.2	7.2	966	28	BZ773416 BZ773416 mcv69a07.
c	533	198.2	7.2	1023	12	BG573852 BG573852 602594979
	534	198.2	7.2	1058	12	BM554734 BM554734 AGENCOURT
	535	198.2	7.2	1086	13	BU163811 BU163811 AGENCOURT
	536	198.2	7.2	1201	13	BX377759 BX377759 BX377759
	537	198.2	7.2	1973	11	AF289611 AF289611 Homo sapi
	538	198	7.2	375	14	CA947224 CA947224 is12h03.y
c	539	198	7.2	406	13	BU568592 BU568592 AGENCOURT
	540	198	7.2	478	28	AQ572243 AQ572243 HS_2120_A
	541	198	7.2	484	9	AA410788 AA410788 zt35b11.r
	542	198	7.2	490	28	B54553 B54553 CIT-HSP-347
c	543	198	7.2	564	14	CD694516 CD694516 EST11039
c	544	198	7.2	567	13	BX641850 BX641850 DKFZp686M
	545	198	7.2	567	14	CA771071 CA771071 io70d12.x
c	546	198	7.2	575	28	B60004 B60004 CIT-HSP-347
c	547	198	7.2	590	14	CB134691 CB134691 K-EST0186
c	548	198	7.2	624	9	AV718908 AV718908 AV718908
c	549	198	7.2	667	29	AG094422 AG094422 Pan trogl
c	550	198	7.2	672	29	AG086117 AG086117 Pan trogl
	551	198	7.2	678	29	AG110735 AG110735 Pan trogl
	552	198	7.2	685	28	BZ601214 WHAAX21TR
c	553	198	7.2	692	29	AG173021 AG173021 Pan trogl
	554	198	7.2	777	28	BZ598611 BZ598611 WHACS52TR
c	555	198	7.2	863	12	BG433140 BG433140 602496885
	556	198	7.2	905	13	BX437351 BX437351 BX437351
c	557	197.8	7.2	334	9	AI620992 AI620992 tu87e11.x
c	558	197.8	7.2	377	10	BE148969 BE148969 CM0-HT024
c	559	197.8	7.2	476	28	B72516 B72516 RPCI11-9D18
	560	197.8	7.2	480	28	AQ413567 AQ413567 RPCI-11-1
	561	197.8	7.2	498	28	AQ413444 AQ413444 RPCI-11-1
	562	197.8	7.2	514	9	AI754653 AI754653 cr28c08.x
c	563	197.8	7.2	534	28	AQ320089 AQ320089 RPCI11-11
c	564	197.8	7.2	538	9	AV699840 AV699840 AV699840
	565	197.8	7.2	563	9	AU144540 AU144540 AU144540
c	566	197.8	7.2	601	10	BE006102 BE006102 RC2-BN012
	567	197.8	7.2	653	29	AG137875 AG137875 Pan trogl
c	568	197.8	7.2	664	29	AG143883 AG143883 Pan trogl
	569	197.8	7.2	675	28	AQ313572 AQ313572 RPCI11-10
	570	197.8	7.2	679	9	AI114557 AI114557 HA1140 Hu
c	571	197.8	7.2	681	29	AG088010 AG088010 Pan trogl
c	572	197.8	7.2	687	29	AG013248 AG013248 Homo sapi
	573	197.8	7.2	810	13	BQ670979 BQ670979 AGENCOURT
c	574	197.8	7.2	832	12	BG697217 BG697217 602660451
c	575	197.6	7.2	319	13	BU565560 BU565560 AGENCOURT
c	576	197.6	7.2	374	28	BZ612130 BZ612130 WHADN40TR
c	577	197.6	7.2	423	28	AQ059624 AQ059624 CIT-HSP-2
	578	197.6	7.2	445	9	AA397389 AA397389 nc65b10.r
c	579	197.6	7.2	540	28	B76218 B76218 RPCI11-14A1
c	580	197.6	7.2	543	14	CB311713 CB311713 AGENCOURT
c	581	197.6	7.2	572	12	BG898652 BG898652 HOA3-1-F-
c	582	197.6	7.2	590	28	AQ349440 AQ349440 RPCI11-11
	583	197.6	7.2	592	9	AL712182 AL712182 DKFZp686E
	584	197.6	7.2	626	10	BE178231 BE178231 RC3-HT060
	585	197.6	7.2	667	13	BX501435 BX501435 DKFZp779P
	586	197.6	7.2	673	29	AG102462 AG102462 Pan trogl
	587	197.6	7.2	688	28	AQ742213 AQ742213 HS_5566_B
	588	197.6	7.2	786	28	AQ748753 AQ748753 HS_5540_A
	589	197.6	7.2	890	13	BU169682 BU169682 AGENCOURT
c	590	197.4	7.2	323	9	AA536040 AA536040 nj81c09.s
c	591	197.4	7.2	368	10	AW855643 AW855643 CM0-CT027
	592	197.4	7.2	388	28	AQ095261 AQ095261 HS_3027_A
	593	197.4	7.2	423	13	BU658499 BU658499 cl36h11.z
c	594	197.4	7.2	457	9	AA804994 AA804994 nv98h06.s
c	595	197.4	7.2	487	28	AQ414845 AQ414845 RPCI-11-2
c	596	197.4	7.2	522	14	CD702867 CD702867 EST19472
c	597	197.4	7.2	533	10	BF828684 BF828684 MR2-HN003
	598	197.4	7.2	569	28	AQ490878 AQ490878 RPCI-11-2
c	599	197.4	7.2	578	14	CD686133 CD686133 EST2654 h
	600	197.4	7.2	583	13	BX481718 BX481718 DKFZp686G
c	601	197.4	7.2	598	13	BU659323 BU659323 cl46c09.z
	602	197.4	7.2	606	9	AF075343 AF075343 AF075343
	603	197.4	7.2	606	9	AI110844 AI110844 HA0297 Hu
c	604	197.4	7.2	651	29	AG158208 AG158208 Pan trogl
c	605	197.4	7.2	665	29	AG049305 AG049305 Pan trogl
	606	197.4	7.2	685	29	AG093451 AG093451 Pan trogl
	607	197.4	7.2	699	28	AQ389756 AQ389756 RPCI11-15
	608	197.4	7.2	719	28	BZ602124 BZ602124 WHABQ94TF
	609	197.4	7.2	722	28	AQ588514 AQ588514 CITBI-E1-
c	610	197.4	7.2	907	13	BX412204 BX412204 BX412204
c	611	197.4	7.2	1111	12	BM466902 BM466902 AGENCOURT
c	612	197.4	7.2	1194	11	BC031290 BC031290 Homo sapi
c	613	197.4	7.2	2403	11	BC035989 BC035989 Homo sapi
c	614	197.2	7.2	316	13	BU941803 BU941803 AGENCOURT
c	615	197.2	7.2	475	10	BF923365 BF923365 MR2-NT013
c	616	197.2	7.2	527	12	BI062751 BI062751 IL3-UT011
c	617	197.2	7.2	539	28	AQ543001 AQ543001 RPCI-11-3
	618	197.2	7.2	580	28	AQ317821 AQ317821 RPCI11-80
	619	197.2	7.2	610	12	BG960498 BG960498 IL3-CT067
c	620	197.2	7.2	624	28	AQ395634 AQ395634 CITBI-E1-
	621	197.2	7.2	629	12	BQ020418 BQ020418 UI-H-DP0-
	622	197.2	7.2	641	9	AI923458 AI923458 wn85h04.x
	623	197.2	7.2	651	12	BM993430 BM993430 UI-H-DT0-
c	624	197.2	7.2	665	13	BQ775123 BQ775123 UI-H-FH0-
	625	197.2	7.2	670	29	AG016202 AG016202 Homo sapi
	626	197.2	7.2	673	12	BM728941 BM728941 UI-E-EO1-
c	627	197.2	7.2	676	29	AG035154 AG035154 Pan trogl
	628	197.2	7.2	709	28	BZ602766 BZ602766 WHAAD55TR
c	629	197.2	7.2	710	12	BI603241 BI603241 603249892
	630	197.2	7.2	721	14	CF135935 CF135935 UI-HF-BN0
	631	197.2	7.2	748	12	BM984741 BM984741 UI-CF-EC1
c	632	197.2	7.2	967	28	AQ744206 AQ744206 HS_5508_A
c	633	197.2	7.2	3643	11	AF132204 AF132204 Homo sapi
	634	197	7.2	314	9	AI085242 AI085242 oy71a04.x
c	635	197	7.2	354	9	AV656063 AV656063 AV656063
	636	197	7.2	420	9	AI356986 AI356986 qx15a09.x
c	637	197	7.2	431	14	CD241905 CD241905 AGENCOURT
c	638	197	7.2	465	10	BF857849 BF857849 QV1-FT020
c	639	197	7.2	465	10	BG010084 BG010084 PM4-GN030
c	640	197	7.2	489	28	BZ609220 BZ609220 WHAD055TF
	641	197	7.2	587	28	AQ428994 AQ428994 CITBI-E1-
c	642	197	7.2	589	13	BX646260 BX646260 DKFZp781E
	643	197	7.2	605	28	AQ344705 AQ344705 RPCI11-11
c	644	197	7.2	616	28	AQ554309 AQ554309 RPCI-11-4
c	645	197	7.2	619	13	BX507567 BX507567 DKFZp686L
c	646	197	7.2	676	29	AG183410 AG183410 Pan trogl
c	647	197	7.2	788	29	CG784112 CG784112 HSC 00887
c	648	197	7.2	835	12	BG165297 BG165297 602344196
c	649	197	7.2	935	14	CD515484 CD515484 AGENCOURT
c	650	197	7.2	1750	11	AF119908 AF119908 Homo sapi
	651	197	7.2	2296	11	BC035158 BC035158 Homo sapi
	652	196.8	7.2	461	28	AQ112243 AQ112243 CIT-HSP-2
	653	196.8	7.2	463	28	AQ535344 AQ535344 RPCI-11-3
	654	196.8	7.2	478	28	B67141 B67141 CIT-HSP-201
	655	196.8	7.2	507	28	AQ180446 AQ180446 HS_3216_B
c	656	196.8	7.2	583	28	AQ476641 AQ476641 CITBI-E1-
c	657	196.8	7.2	592	13	BU579561 BU579561 im86e10.y
	658	196.8	7.2	619	28	AQ896719 AQ896719 HS_3153_A
c	659	196.8	7.2	620	28	AQ376840 AQ376840 RPCI11-15
	660	196.8	7.2	641	13	BX102838 BX102838 BX102838
c	661	196.8	7.2	648	9	AL712019 AL712019 DKFZp686D

c	662	196.8	7.2	674	14	CD369914 CD369914 UI-H-FT1-
	663	196.8	7.2	719	9	AL706491 AL706491 DKFZp686D
	664	196.8	7.2	744	28	BZ773255 BZ773255 mcv65e04.
c	665	196.8	7.2	765	28	AQ738678 AQ738678 HS_5381_B
c	666	196.8	7.2	780	13	BU627541 BU627541 UI-H-FG0-
c	667	196.8	7.2	801	28	BZ600703 BZ600703 WHABC76TF
c	668	196.8	7.2	879	13	BX434837 BX434837 BX434837
c	669	196.8	7.2	946	13	BX361280 BX361280 BX361280
c	670	196.8	7.2	981	13	BQ881721 BQ881721 AGENCOURT
c	671	196.8	7.2	1027	12	BG539940 BG539940 602567448
c	672	196.6	7.2	291	9	AA491767 AA491767 ne94h07.s
	673	196.6	7.2	313	12	BG942005 BG942005 ax19h11.x
c	674	196.6	7.2	323	13	BU851844 BU851844 AGENCOURT
c	675	196.6	7.2	353	13	BU662405 BU662405 cl85e10.z
	676	196.6	7.2	356	13	BY337367 BY337367 BY337367
c	677	196.6	7.2	357	12	BG180976 BG180976 602327459
	678	196.6	7.2	382	9	AI186438 AI186438 qd26a04.x
	679	196.6	7.2	408	9	AI362442 AI362442 qu96a03.x
c	680	196.6	7.2	414	28	B66825 B66825 CIT-HSP-201
	681	196.6	7.2	485	10	AW674258 AW674258 bb30b04.x
c	682	196.6	7.2	486	10	BE258258 BE258258 601115925
c	683	196.6	7.2	493	10	AW995323 AW995323 QV0-BN004
	684	196.6	7.2	552	9	AL712937 AL712937 DKFZp686B
c	685	196.6	7.2	552	9	AV763782 AV763782 AV763782
	686	196.6	7.2	554	9	AL713338 AL713338 DKFZp686P
	687	196.6	7.2	569	9	AL042373 AL042373 DKFZp434A
c	688	196.6	7.2	585	12	BM045436 BM045436 603623552
c	689	196.6	7.2	607	12	BG778393 BG778393 602666556
	690	196.6	7.2	629	28	AQ377967 AQ377967 RPCI11-16
	691	196.6	7.2	664	29	AG069617 AG069617 Pan trogl
	692	196.6	7.2	669	14	CK005380 CK005380 AGENCOURT
c	693	196.6	7.2	689	13	BX502939 BX502939 DKFZp779O
c	694	196.6	7.2	724	29	AG141226 AG141226 Pan trogl
	695	196.6	7.2	740	9	AV731678 AV731678 AV731678
	696	196.6	7.2	756	28	BZ599796 BZ599796 WHACW27TF
	697	196.6	7.2	776	12	BI198888 BI198888 602758918
c	698	196.6	7.2	790	28	AQ740405 AQ740405 HS_5502_A
	699	196.6	7.2	892	14	CD518383 CD518383 AGENCOURT
c	700	196.6	7.2	907	13	BQ710503 BQ710503 AGENCOURT
c	701	196.6	7.2	1067	13	BU172793 BU172793 AGENCOURT
	702	196.6	7.2	1201	13	BX343668 BX343668 BX343668
c	703	196.4	7.1	325	12	BI480881 BI480881 H2RPE-061
c	704	196.4	7.1	356	9	AI349817 AI349817 ta97a04.x
c	705	196.4	7.1	414	9	AV741914 AV741914 AV741914
	706	196.4	7.1	440	9	AA070899 AA070899 zm66c01.s
c	707	196.4	7.1	445	28	AQ275354 AQ275354 RPCI-5-10
	708	196.4	7.1	463	13	BQ416855 BQ416855 ik42e06.x
c	709	196.4	7.1	509	10	BF814183 BF814183 RC3-CI004
	710	196.4	7.1	511	28	AQ808980 AQ808980 HS_5252_A
c	711	196.4	7.1	533	28	AQ471624 AQ471624 CITBI-E1-
c	712	196.4	7.1	540	28	AQ442353 AQ442353 HS_5117_B
	713	196.4	7.1	566	13	BQ417468 BQ417468 ik38d04.y
	714	196.4	7.1	577	10	AW372043 AW372043 RC2-BT031
c	715	196.4	7.1	582	13	BQ286387 BQ286387 ik29e05.y
c	716	196.4	7.1	598	28	B92813 B92813 CIT-HSP-216
c	717	196.4	7.1	616	29	AG157881 AG157881 Pan trogl
c	718	196.4	7.1	633	9	AL707626 AL707626 DKFZp686O
	719	196.4	7.1	671	29	AG079103 AG079103 Pan trogl
	720	196.4	7.1	695	29	AG113036 AG113036 Pan trogl
	721	196.4	7.1	740	14	CB963410 CB963410 AGENCOURT
	722	196.4	7.1	742	29	AG163034 AG163034 Pan trogl
	723	196.4	7.1	753	13	BU853329 BU853329 AGENCOURT
	724	196.4	7.1	832	28	BZ599912 BZ599912 WHADX76TR
	725	196.4	7.1	906	14	CD558557 CD558557 AGENCOURT
c	726	196.4	7.1	909	10	BF184981 BF184981 601843479
c	727	196.4	7.1	1207	28	AF102031 AF102031 AF102031
c	728	196.4	7.1	1216	28	AF101533 AF101533 AF101533
	729	196.4	7.1	2335	11	BC035366 BC035366 Homo sapi
c	730	196.2	7.1	334	14	F35374 F35374 HSPD31459 H
	731	196.2	7.1	407	9	AI887235 AI887235 wm37f11.x
	732	196.2	7.1	410	9	AA832175 AA832175 oc91c04.s
c	733	196.2	7.1	423	10	AW819125 AW819125 RC3-ST028
c	734	196.2	7.1	428	12	BG250390 BG250390 602362542
	735	196.2	7.1	444	28	AQ088791 AQ088791 HS_3002_A
	736	196.2	7.1	480	9	AI814682 AI814682 wk66b07.x
c	737	196.2	7.1	481	28	AQ262193 AQ262193 CITBI-E1-
c	738	196.2	7.1	491	28	AQ322134 AQ322134 RPCI11-10
	739	196.2	7.1	528	12	BQ005898 BQ005898 UI-H-ED0-
c	740	196.2	7.1	545	28	AQ505381 AQ505381 RPCI-11-3
	741	196.2	7.1	560	9	AL589348 AL589348 DKFZp451K
	742	196.2	7.1	584	10	AW975626 AW975626 EST387735
	743	196.2	7.1	590	28	B91184 B91184 CIT-HSP-216
	744	196.2	7.1	615	13	BU783874 BU783874 in10h03.x
	745	196.2	7.1	644	13	BX478445 BX478445 DKFZp686J
c	746	196.2	7.1	647	29	AG049716 AG049716 Pan trogl
c	747	196.2	7.1	651	29	AG173822 AG173822 Pan trogl
	748	196.2	7.1	664	28	AQ393000 AQ393000 CITBI-E1-
	749	196.2	7.1	664	29	AG151502 AG151502 Pan trogl
	750	196.2	7.1	674	12	BM997701 BM997701 UI-H-DH0-
	751	196.2	7.1	678	28	B90319 B90319 CIT-HSP-217
	752	196.2	7.1	699	28	AQ201515 AQ201515 RPCI11-44
	753	196.2	7.1	705	13	BU616173 BU616173 UI-H-DF0-
	754	196.2	7.1	732	13	BX471414 BX471414 DKFZp686C
	755	196.2	7.1	872	13	BQ674797 BQ674797 AGENCOURT
	756	196.2	7.1	1384	11	BC015101 BC015101 Homo sapi
	757	196	7.1	354	10	AW237905 AW237905 xo95a08.x
	758	196	7.1	434	9	AW081303 AW081303 xc30e02.x
	759	196	7.1	445	13	BU728124 BU728124 UI-E-CQ0-
	760	196	7.1	460	14	CF137232 CF137232 UI-HF-BN0
c	761	196	7.1	485	28	AQ550565 AQ550565 RPCI-11-4
	762	196	7.1	489	9	AI160786 AI160786 qc75e09.x
	763	196	7.1	530	28	AQ174842 AQ174842 HS_3211_B
	764	196	7.1	539	10	AW500534 AW500534 UI-HF-BN0
c	765	196	7.1	548	28	AQ609133 AQ609133 HS_5373_B
	766	196	7.1	552	14	CA774186 CA774186 in23d06.x
	767	196	7.1	561	13	BX494138 BX494138 DKFZp779F
	768	196	7.1	578	13	BX507975 BX507975 DKFZp686P
	769	196	7.1	588	12	BG942752 BG942752 ax29b07.x
c	770	196	7.1	591	28	AQ240052 AQ240052 CIT-HSP-2
	771	196	7.1	619	14	CA441065 CA441065 UI-H-DP0-
c	772	196	7.1	643	10	BF212465 BF212465 601813237
c	773	196	7.1	687	10	BE178064 BE178064 RC3-HT060
	774	196	7.1	696	13	BU616112 BU616112 UI-H-DF0-
	775	196	7.1	712	29	AG010148 AG010148 Homo sapi
c	776	196	7.1	742	14	CD239228 CD239228 FNPBMA10
c	777	196	7.1	748	14	CF995838 CF995838 AGENCOURT
c	778	196	7.1	750	29	AG011936 AG011936 Homo sapi
c	779	196	7.1	753	28	BZ774352 BZ774352 mcv92c10.
c	780	196	7.1	753	29	AG011935 AG011935 Homo sapi
c	781	196	7.1	833	28	BZ612682 BZ612682 WHACP87TR
	782	196	7.1	1159	12	BM465227 BM465227 AGENCOURT
	783	196	7.1	1201	13	BX361067 BX361067 BX361067
c	784	195.8	7.1	318	13	BU858322 BU858322 AGENCOURT
c	785	195.8	7.1	337	13	BU566980 BU566980 AGENCOURT
	786	195.8	7.1	350	28	BZ601892 BZ601892 WHADF60TR
c	787	195.8	7.1	357	10	BE139358 BE139358 xr69d09.x
	788	195.8	7.1	358	9	AI440117 AI440117 ti62a06.x
c	789	195.8	7.1	361	28	AQ263409 AQ263409 CITBI-E1-
c	790	195.8	7.1	380	28	AQ045872 AQ045872 RPCI11-31
c	791	195.8	7.1	383	10	BE139267 BE139267 xr68a06.x
	792	195.8	7.1	397	9	AA600202 AA600202 ae46f03.s
c	793	195.8	7.1	400	28	B60245 B60245 CIT-HSP-200
c	794	195.8	7.1	411	28	AQ017617 AQ017617 CIT-HSP-2
	795	195.8	7.1	426	28	AQ282192 AQ282192 RPCI11-1J
	796	195.8	7.1	436	9	AA655016 AA655016 nt78b08.s
c	797	195.8	7.1	436	12	BI497377 BI497377 df135g02.
c	798	195.8	7.1	454	28	AQ268452 AQ268452 RPCI11-69
	799	195.8	7.1	466	28	AQ170949 AQ170949 HS_2197_B
c	800	195.8	7.1	495	28	AQ466784 AQ466784 HS_5181_B
	801	195.8	7.1	499	28	AQ180447 AQ180447 HS_3216_B
	802	195.8	7.1	515	13	BQ581726 BQ581726 il12c10.x
	803	195.8	7.1	528	9	AA833896 AA833896 od64g08.s
c	804	195.8	7.1	531	13	BU674026 BU674026 UI-CF-DU0
	805	195.8	7.1	533	9	AA833875 AA833875 od64e08.s
	806	195.8	7.1	536	28	AQ637589 AQ637589 RPCI-11-4
	807	195.8	7.1	562	9	AU147162 AU147162 AU147162

c 808	195.8	7.1	567	9	AV761107	AV761107 AV761107
809	195.8	7.1	589	28	AQ484951	AQ484951 RPCI-11-2
c 810	195.8	7.1	606	13	BQ778458	BQ778458 il31d07.x
811	195.8	7.1	634	29	AG065330	AG065330 Pan trogl
c 812	195.8	7.1	635	12	BI603881	BI603881 603249774
813	195.8	7.1	645	29	AG162624	AG162624 Pan trogl
814	195.8	7.1	664	28	AQ742068	AQ742068 HS_5566_B
815	195.8	7.1	671	29	AG016201	AG016201 Homo sapi
c 816	195.8	7.1	673	12	BG493959	BG493959 602542239
c 817	195.8	7.1	676	29	AG178621	AG178621 Pan trogl
818	195.8	7.1	678	12	BQ028906	BQ028906 UI-H-DF0-
819	195.8	7.1	683	29	AG127273	AG127273 Pan trogl
c 820	195.8	7.1	701	13	BQ774698	BQ774698 UI-H-FH0-
821	195.8	7.1	712	14	CD246087	CD246087 AGENCOURT
c 822	195.8	7.1	721	14	CD364665	CD364665 UI-H-FT2-
c 823	195.8	7.1	737	14	CD239898	CD239898 FNPBZH08
824	195.8	7.1	760	9	AL691744	AL691744 DKFZp313M
c 825	195.8	7.1	779	14	CA442904	CA442904 UI-H-DP0-
826	195.8	7.1	811	28	AQ780945	AQ780945 HS_3138_B
c 827	195.8	7.1	1201	13	BX460260	BX460260 BX460260
c 828	195.8	7.1	3197	11	BC039251	BC039251 Homo sapi
c 829	195.6	7.1	346	28	AQ706012	AQ706012 HS_5556_A
c 830	195.6	7.1	377	9	AA856873	AA856873 od83f09.s
c 831	195.6	7.1	439	9	AV738383	AV738383 AV738383
c 832	195.6	7.1	477	28	AQ221138	AQ221138 HS_2258_B
833	195.6	7.1	479	14	W96522	W96522 ze43f08.r1
c 834	195.6	7.1	519	28	AQ348955	AQ348955 RPCI11-12
835	195.6	7.1	523	13	BX491309	BX491309 DKFZp686K
c 836	195.6	7.1	539	28	AQ379787	AQ379787 RPCI11-15
c 837	195.6	7.1	551	28	AQ626960	AQ626960 CITBI-E1-
c 838	195.6	7.1	565	28	AQ341438	AQ341438 RPCI11-11
c 839	195.6	7.1	577	28	AQ265389	AQ265389 CITBI-E1-
c 840	195.6	7.1	585	10	BE315483	BE315483 601140873
c 841	195.6	7.1	601	14	CK002080	CK002080 AGENCOURT
842	195.6	7.1	607	28	AQ078392	AQ078392 CIT-HSP-2
843	195.6	7.1	616	28	AQ423170	AQ423170 CITBI-E1-
844	195.6	7.1	619	13	BX505458	BX505458 DKFZp686E
845	195.6	7.1	659	28	BH609644	BH609644 HIV05B01
c 846	195.6	7.1	664	29	AG099156	AG099156 Pan trogl
c 847	195.6	7.1	672	29	AG104530	AG104530 Pan trogl
848	195.6	7.1	679	29	AG016200	AG016200 Homo sapi
c 849	195.6	7.1	722	28	AQ895351	AQ895351 HS_3133_A
850	195.6	7.1	727	29	CG385930	CG385930 HSC 00780
851	195.6	7.1	737	28	AQ751269	AQ751269 HS_5574_B
852	195.6	7.1	770	14	CF595624	CF595624 AGENCOURT
c 853	195.6	7.1	811	13	BQ429073	BQ429073 AGENCOURT
c 854	195.6	7.1	839	28	BZ606035	BZ606035 WHACT65TR
c 855	195.6	7.1	888	10	BF184128	BF184128 601843165
c 856	195.6	7.1	912	12	BG116570	BG116570 602317696
857	195.6	7.1	946	28	AQ744276	AQ744276 HS_5508_A
c 858	195.6	7.1	1200	13	BX404721	BX404721 BX404721
859	195.4	7.1	404	9	AI421257	AI421257 tf14d09.x
860	195.4	7.1	410	9	AA568314	AA568314 nf15c01.s
c 861	195.4	7.1	433	10	AW873261	AW873261 hm05b11.x
862	195.4	7.1	481	13	BX506232	BX506232 DKFZp686N
863	195.4	7.1	482	28	AQ603417	AQ603417 HS_2126_A
c 864	195.4	7.1	484	28	AQ186366	AQ186366 HS_3085_A
c 865	195.4	7.1	489	28	AQ627841	AQ627841 CITBI-E1-
866	195.4	7.1	520	28	AQ719860	AQ719860 HS_5546_A
c 867	195.4	7.1	546	9	AI889995	AI889995 wm80c03.x
868	195.4	7.1	546	28	AQ548438	AQ548438 RPCI-11-4
869	195.4	7.1	553	13	BU579702	BU579702 im89d08.x
870	195.4	7.1	555	28	AQ316808	AQ316808 RPCI11-3F
c 871	195.4	7.1	562	10	BF838015	BF838015 QV3-HT101
c 872	195.4	7.1	576	9	AV759803	AV759803 AV759803
873	195.4	7.1	622	28	AQ351016	AQ351016 RPCI11-12
874	195.4	7.1	631	13	BX496221	BX496221 DKFZp779N
c 875	195.4	7.1	633	9	AL119247	AL119247 DKFZp761G
c 876	195.4	7.1	633	9	AL133771	AL133771 DKFZp761E
c 877	195.4	7.1	655	29	AG154911	AG154911 Pan trogl
878	195.4	7.1	668	12	BM990806	BM990806 UI-H-DI0-
c 879	195.4	7.1	676	28	AQ037792	AQ037792 CIT-HSP-2
c 880	195.4	7.1	677	29	AG068925	AG068925 Pan trogl
c 881	195.4	7.1	696	29	AG169302	AG169302 Pan trogl
c 882	195.4	7.1	703	28	AQ308788	AQ308788 CITBI-E1-
883	195.4	7.1	747	12	BM999559	BM999559 UI-H-DP0-
c 884	195.4	7.1	769	14	CD370173	CD370173 UI-H-FT1-
c 885	195.4	7.1	814	12	BG682037	BG682037 602630006
c 886	195.4	7.1	843	14	CD654903	CD654903 AGENCOURT
c 887	195.4	7.1	871	13	BX457055	BX457055 BX457055
c 888	195.4	7.1	881	9	AU118374	AU118374 AU118374
c 889	195.4	7.1	988	14	CD518499	CD518499 AGENCOURT
890	195.2	7.1	373	13	BQ181689	BQ181689 UI-H-EU0-
c 891	195.2	7.1	379	12	BI021416	BI021416 IL3-MT026
c 892	195.2	7.1	390	28	AQ201761	AQ201761 RPCI11-44
c 893	195.2	7.1	415	9	AA533040	AA533040 nj60b02.s
894	195.2	7.1	422	12	BQ030451	BQ030451 UI-H-DT0-
c 895	195.2	7.1	441	14	CD693386	CD693386 EST9909 h
896	195.2	7.1	447	28	AQ082732	AQ082732 RPCI11-54
c 897	195.2	7.1	450	9	AA501461	AA501461 ne68a06.s
c 898	195.2	7.1	466	28	AQ590440	AQ590440 HS_5388_A
c 899	195.2	7.1	486	9	AA315361	AA315361 EST187192
900	195.2	7.1	498	14	CA773406	CA773406 im63f10.y
901	195.2	7.1	508	12	BM667031	BM667031 UI-E-DX0-
902	195.2	7.1	525	10	AW615504	AW615504 ba10e11.x
c 903	195.2	7.1	528	28	AQ592328	AQ592328 HS_5331_B
904	195.2	7.1	560	10	BE155951	BE155951 QV0-HT036
c 905	195.2	7.1	577	28	BZ600489	BZ600489 WHAAH20TR
c 906	195.2	7.1	597	9	AV733437	AV733437 AV733437
c 907	195.2	7.1	609	13	BX473888	BX473888 DKFZp686N
c 908	195.2	7.1	670	29	AG072750	AG072750 Pan trogl
909	195.2	7.1	680	29	AG125610	AG125610 Pan trogl
c 910	195.2	7.1	691	28	AQ899804	AQ899804 HS_2013_A
c 911	195.2	7.1	700	13	BX508919	BX508919 DKFZp686G
912	195.2	7.1	705	28	AQ380615	AQ380615 RPCI11-16
c 913	195.2	7.1	706	29	AG121075	AG121075 Pan trogl
914	195.2	7.1	732	28	AQ506289	AQ506289 RPCI-11-2
c 915	195.2	7.1	794	12	BG742810	BG742810 602632558
c 916	195.2	7.1	972	13	BQ712091	BQ712091 AGENCOURT
c 917	195.2	7.1	1010	12	BG290486	BG290486 602388345
c 918	195	7.1	321	13	BU958280	BU958280 AGENCOURT
919	195	7.1	335	12	BG939917	BG939917 ax01b11.x
920	195	7.1	410	28	AQ216301	AQ216301 HS_3240_B
921	195	7.1	422	9	AL601258	AL601258 DKFZp313K
922	195	7.1	441	28	AQ595914	AQ595914 HS_2116_B
923	195	7.1	443	28	AQ204776	AQ204776 HS_3233_A
924	195	7.1	456	9	AV745803	AV745803 AV745803
925	195	7.1	492	9	AL708858	AL708858 DKFZp686K
c 926	195	7.1	518	28	B81147	B81147 CIT-HSP-201
927	195	7.1	520	13	BX643114	BX643114 DKFZp781L
928	195	7.1	534	28	AQ476957	AQ476957 CITBI-E1-
c 929	195	7.1	554	28	AQ345762	AQ345762 RPCI11-11
c 930	195	7.1	586	28	AQ390048	AQ390048 RPCI11-14
c 931	195	7.1	594	28	AQ343968	AQ343968 RPCI11-11
c 932	195	7.1	620	10	AW971071	AW971071 EST383157
c 933	195	7.1	624	28	AQ373399	AQ373399 RPCI11-15
934	195	7.1	667	29	AG155188	AG155188 Pan trogl
c 935	195	7.1	670	29	AG104085	AG104085 Pan trogl
936	195	7.1	674	29	AG123283	AG123283 Pan trogl
c 937	195	7.1	685	29	AG088804	AG088804 Pan trogl
c 938	195	7.1	699	13	BY763723	BY763723 BY763723
c 939	195	7.1	708	10	BF978936	BF978936 602147612
940	195	7.1	763	28	BZ611555	BZ611555 WHACS12TF
c 941	195	7.1	907	12	BG547933	BG547933 602576037
c 942	195	7.1	1003	13	BQ065310	BQ065310 AGENCOURT
943	194.8	7.1	372	28	AQ163866	AQ163866 HS_3171_A
c 944	194.8	7.1	397	28	AQ207078	AQ207078 HS_3235_A
945	194.8	7.1	408	28	AQ180202	AQ180202 HS_3200_B
c 946	194.8	7.1	421	9	AI336637	AI336637 ta94e09.x
947	194.8	7.1	421	10	AW674631	AW674631 bb41a11.x
948	194.8	7.1	424	28	AQ393641	AQ393641 CITBI-E1-
949	194.8	7.1	442	13	BX101829	BX101829 BX101829
950	194.8	7.1	521	28	AQ760330	AQ760330 HS_3028_A
951	194.8	7.1	556	12	BM997889	BM997889 UI-H-DI0-
952	194.8	7.1	570	28	AQ509083	AQ509083 RPCI-11-2
c 953	194.8	7.1	580	28	AQ419045	AQ419045 RPCI-11-1

c 954	194.8	7.1	606	13	BU662311	BU662311 cl84c08.z
c 955	194.8	7.1	630	9	AI114534	AI114534 HA1117 Hu
c 956	194.8	7.1	639	12	BM992802	BM992802 UI-H-DT0-
c 957	194.8	7.1	646	9	AI207424	AI207424 HA2766 Hu
958	194.8	7.1	646	13	BX509955	BX509955 DKFZp686B
959	194.8	7.1	654	13	BX489322	BX489322 DKFZp686E
c 960	194.8	7.1	658	28	AQ200765	AQ200765 RPCI11-65
c 961	194.8	7.1	660	28	AQ394006	AQ394006 CITBI-E1-
c 962	194.8	7.1	698	29	AG162589	AG162589 Pan trogl
963	194.8	7.1	710	29	AG002493	AG002493 Homo sapi
c 964	194.8	7.1	713	14	CB998598	CB998598 AGENCOURT
965	194.8	7.1	715	29	AG010149	AG010149 Homo sapi
966	194.8	7.1	716	29	AG185086	AG185086 Pan trogl
c 967	194.8	7.1	718	29	AG001503	AG001503 Homo sapi
968	194.8	7.1	759	9	AL601085	AL601085 DKFZp313K
969	194.8	7.1	768	14	CD356527	CD356527 AGENCOURT
970	194.8	7.1	841	28	AQ744502	AQ744502 HS_5508_A
971	194.8	7.1	855	14	CB994878	CB994878 AGENCOURT
972	194.8	7.1	935	14	CD244730	CD244730 AGENCOURT
973	194.8	7.1	960	14	CD245816	CD245816 AGENCOURT
974	194.6	7.1	340	13	BX482399	BX482399 DKFZp686J
975	194.6	7.1	359	28	AQ123162	AQ123162 HS_3095_B
976	194.6	7.1	378	9	AA470524	AA470524 nc71h09.s
977	194.6	7.1	407	9	AA772906	AA772906 ae73b04.s
978	194.6	7.1	409	9	AI537995	AI537995 tp33g12.x
979	194.6	7.1	437	10	BF725688	BF725688 bx18f09.x
c 980	194.6	7.1	439	9	AL712324	AL712324 DKFZp686E
981	194.6	7.1	486	28	AQ021976	AQ021976 CIT-HSP-2
982	194.6	7.1	487	9	AI291439	AI291439 qm73f01.x
c 983	194.6	7.1	490	28	AQ426532	AQ426532 CITBI-E1-
984	194.6	7.1	497	10	AW974932	AW974932 EST387037
c 985	194.6	7.1	501	28	AQ130454	AQ130454 HS_3021_A
986	194.6	7.1	516	10	BE645220	BE645220 7e66f01.x
987	194.6	7.1	533	13	BX495554	BX495554 DKFZp779B
c 988	194.6	7.1	534	28	AQ358180	AQ358180 HS_5027_A
c 989	194.6	7.1	542	9	AV700192	AV700192 AV700192
990	194.6	7.1	580	12	BM759505	BM759505 K-EST0039
991	194.6	7.1	582	28	AQ427274	AQ427274 CITBI-E1-
c 992	194.6	7.1	583	28	AQ628050	AQ628050 CITBI-E1-
c 993	194.6	7.1	619	28	AQ425911	AQ425911 CITBI-E1-
c 994	194.6	7.1	627	14	CB269876	CB269876 1008783 H
995	194.6	7.1	653	28	AQ543318	AQ543318 RPCI-11-3
996	194.6	7.1	655	14	CA425288	CA425288 UI-H-DF0-
997	194.6	7.1	659	28	AQ392997	AQ392997 CITBI-E1-
998	194.6	7.1	664	12	BG939617	BG939617 cr59b10.x
999	194.6	7.1	712	14	CF146965	CF146965 UI-HF-CB0
1000	194.6	7.1	723	14	CA431902	CA431902 UI-H-FT0-
1001	194.6	7.1	732	14	CA308765	CA308765 UI-H-FT1-
1002	194.6	7.1	733	12	BQ019992	BQ019992 UI-H-ED0-
c1003	194.6	7.1	797	10	AW959865	AW959865 EST371936
c1004	194.6	7.1	836	10	BF667838	BF667838 602122662
1005	194.6	7.1	836	28	BZ603670	BZ603670 WHACU35TR
1006	194.6	7.1	859	12	BG114507	BG114507 602284827
c1007	194.6	7.1	872	28	AQ744476	AQ744476 HS_5506_A
c1008	194.6	7.1	986	12	BM919946	BM919946 AGENCOURT
1009	194.6	7.1	998	9	AL570044	AL570044 AL570044
1010	194.6	7.1	1026	13	BQ057436	BQ057436 AGENCOURT
1011	194.6	7.1	1201	13	BX396493	BX396493 BX396493
1012	194.6	7.1	2971	28	AF101960	AF101960 AF101960
1013	194.4	7.1	372	28	B93553	B93553 CIT-HSP-216
c1014	194.4	7.1	386	9	AL079734	AL079734 DKFZp434H
c1015	194.4	7.1	394	28	AZ516612	AZ516612 RPCI-11-2
c1016	194.4	7.1	405	9	AI133083	AI133083 HA1672 Hu
c1017	194.4	7.1	406	9	AI345132	AI345132 ta95g08.x
c1018	194.4	7.1	481	9	AL597510	AL597510 DKFZp313F
1019	194.4	7.1	504	28	AQ827059	AQ827059 HS_5291_B
1020	194.4	7.1	508	13	BX646464	BX646464 DKFZp781C
c1021	194.4	7.1	524	10	BF869511	BF869511 IL3-ET011
1022	194.4	7.1	533	13	BX481423	BX481423 DKFZp686A
1023	194.4	7.1	542	10	AW613448	AW613448 hh73d02.x
1024	194.4	7.1	563	13	BU617594	BU617594 UI-H-DF0-
1025	194.4	7.1	569	10	BF838014	BF838014 QV3-HT101
c1026	194.4	7.1	569	28	B66557	B66557 CIT-HSP-201
1027	194.4	7.1	601	28	AQ419533	AQ419533 RPCI-11-1
1028	194.4	7.1	602	14	CD369014	CD369014 UI-H-FT1-
1029	194.4	7.1	683	29	AG141291	AG141291 Pan trogl
c1030	194.4	7.1	687	12	BG777306	BG777306 602664547
1031	194.4	7.1	697	28	AQ054805	AQ054805 CIT-HSP-2
1032	194.4	7.1	700	13	BU663882	BU663882 cl108a08.
1033	194.4	7.1	700	29	AG049366	AG049366 Pan trogl
1034	194.4	7.1	711	14	CA446907	CA446907 UI-H-ED0-
1035	194.4	7.1	714	29	AG008106	AG008106 Homo sapi
1036	194.4	7.1	720	28	B88957	B88957 CIT-HSP-217
c1037	194.4	7.1	729	28	BZ600233	BZ600233 WHABD04TF
c1038	194.4	7.1	802	12	BG204346	BG204346 RST23748
c1039	194.4	7.1	803	28	BZ610346	BZ610346 WHACN31TF
c1040	194.4	7.1	814	28	AQ780979	AQ780979 HS_3138_B
1041	194.4	7.1	828	28	AQ749749	AQ749749 HS_5573_A
c1042	194.4	7.1	889	13	BQ709089	BQ709089 AGENCOURT
c1043	194.4	7.1	1655	11	BC022315	BC022315 Homo sapi
1044	194.2	7.1	313	14	F09355	F09355 HSC30D112 n
c1045	194.2	7.1	340	13	BU960047	BU960047 AGENCOURT
c1046	194.2	7.1	360	28	AQ081596	AQ081596 RPCI11-54
1047	194.2	7.1	408	28	AQ434271	AQ434271 HS_5101_A
1048	194.2	7.1	437	28	AQ085384	AQ085384 HS_2164_B
1049	194.2	7.1	439	9	AL707781	AL707781 DKFZp686J
1050	194.2	7.1	458	9	AI733856	AI733856 zo19c03.y
c1051	194.2	7.1	460	10	AW864122	AW864122 PM0-SN001
c1052	194.2	7.1	470	28	B86288	B86288 RPCI11-22J2
c1053	194.2	7.1	545	12	BG110480	BG110480 602278903
c1054	194.2	7.1	551	12	BM754642	BM754642 K-EST0032
c1055	194.2	7.1	567	28	AQ706970	AQ706970 HS_5551_B
c1056	194.2	7.1	573	28	AQ452564	AQ452564 HS_5184_A
1057	194.2	7.1	588	28	AQ480748	AQ480748 RPCI-11-2
1058	194.2	7.1	600	28	AQ480700	AQ480700 RPCI-11-2
c1059	194.2	7.1	628	28	B68463	B68463 CIT-HSP-205
1060	194.2	7.1	631	28	AQ382985	AQ382985 RPCI11-13
c1061	194.2	7.1	634	10	BF691892	BF691892 602248479
c1062	194.2	7.1	642	29	AG161088	AG161088 Pan trogl
c1063	194.2	7.1	646	14	CK003734	CK003734 AGENCOURT
1064	194.2	7.1	664	28	AQ581318	AQ581318 RPCI-11-4
c1065	194.2	7.1	666	12	BG569393	BG569393 602588726
c1066	194.2	7.1	677	14	CD640596	CD640596 AGENCOURT
1067	194.2	7.1	680	28	AQ547575	AQ547575 RPCI-11-4
c1068	194.2	7.1	710	29	AG186254	AG186254 Pan trogl
c1069	194.2	7.1	723	28	AQ385345	AQ385345 RPCI11-14
c1070	194.2	7.1	725	12	BG402527	BG402527 602465542
c1071	194.2	7.1	728	28	AQ527901	AQ527901 RPCI-11-3
1072	194.2	7.1	748	13	BU626943	BU626943 UI-H-FT0-
c1073	194.2	7.1	769	14	CB312078	CB312078 AGENCOURT
c1074	194.2	7.1	796	28	AQ490320	AQ490320 RPCI-11-2
c1075	194.2	7.1	846	28	AQ748323	AQ748323 HS_5535_A
1076	194.2	7.1	881	9	AL571107	AL571107 AL571107
1077	194.2	7.1	890	13	BU178866	BU178866 AGENCOURT
1078	194.2	7.1	904	13	BU168259	BU168259 AGENCOURT
c1079	194.2	7.1	922	13	BX371898	BX371898 BX371898
c1080	194.2	7.1	923	10	BE883754	BE883754 601506149
c1081	194.2	7.1	924	13	BQ882030	BQ882030 AGENCOURT
1082	194.2	7.1	1005	13	BQ068390	BQ068390 AGENCOURT
1083	194	7.1	327	9	AA483606	AA483606 ne75d02.s
1084	194	7.1	334	10	BF447461	BF447461 nae37d05.
c1085	194	7.1	341	13	BQ435827	BQ435827 AGENCOURT
c1086	194	7.1	355	9	AL712365	AL712365 DKFZp686J
1087	194	7.1	360	9	AA582374	AA582374 nn53f03.s
c1088	194	7.1	379	9	AL601272	AL601272 DKFZp313K
c1089	194	7.1	379	14	CA949832	CA949832 iq25h05.y
c1090	194	7.1	397	28	AQ426735	AQ426735 CITBI-E1-
1091	194	7.1	398	28	AQ427017	AQ427017 CITBI-E1-
1092	194	7.1	424	28	AZ515688	AZ515688 UP_430-16
1093	194	7.1	437	10	BF725884	BF725884 bx21b11.x
c1094	194	7.1	444	12	BQ017642	BQ017642 UI-H-DI0-
1095	194	7.1	452	10	BF828236	BF828236 IL0-HN008
c1096	194	7.1	480	28	AQ240592	AQ240592 CIT-HSP-2
1097	194	7.1	483	13	BX472060	BX472060 DKFZp686A
c1098	194	7.1	488	12	BM836819	BM836819 K-EST0112
1099	194	7.1	494	14	CA434946	CA434946 UI-H-DH0-

1100	194	7.1	529	28	AQ386729	AQ386729	RPCI11-14
c1101	194	7.1	531	28	AQ391425	AQ391425	CITBI-E1-
1102	194	7.1	538	13	BX111791	BX111791	BX111791
1103	194	7.1	542	28	AQ381439	AQ381439	RPCI11-16
1104	194	7.1	552	28	AQ713182	AQ713182	HS_5404_A
1105	194	7.1	593	28	AQ384740	AQ384740	RPCI11-14
1106	194	7.1	594	28	AQ042833	AQ042833	CIT-HSP-2
1107	194	7.1	600	28	AQ386202	AQ386202	RPCI11-14
1108	194	7.1	606	10	AW245860	AW245860	2822882.5
c1109	194	7.1	656	14	CA420015	CA420015	UI-H-FH0-
1110	194	7.1	738	28	BZ611292	BZ611292	WHABO78TF
1111	194	7.1	761	12	BM993773	BM993773	UI-H-DF1-
c1112	194	7.1	779	28	AQ586732	AQ586732	RPCI-11-4
1113	194	7.1	897	13	BU552764	BU552764	AGENCOURT
1114	194	7.1	917	13	BQ677871	BQ677871	AGENCOURT
1115	194	7.1	932	13	BQ880197	BQ880197	AGENCOURT
1116	194	7.1	976	11	BC050657	BC050657	Homo sapi
c1117	194	7.1	1022	12	BM556059	BM556059	AGENCOURT
1118	194	7.1	1201	13	BX331775	BX331775	BX331775
c1119	194	7.1	2669	11	BC035179	BC035179	Homo sapi
1120	194	7.1	4034	11	BC063541	BC063541	Homo sapi
1121	193.8	7.0	322	9	AL707005	AL707005	DKFZp686I
1122	193.8	7.0	330	9	AA368155	AA368155	EST79360
c1123	193.8	7.0	334	9	AI251034	AI251034	qx71a11.x
1124	193.8	7.0	345	12	BG222875	BG222875	naf60e11.
c1125	193.8	7.0	376	10	BE857883	BE857883	7d64h08.x
1126	193.8	7.0	405	9	AI217131	AI217131	qf47c08.x
c1127	193.8	7.0	408	12	BM706715	BM706715	UI-E-CQ0-
c1128	193.8	7.0	413	10	BE064581	BE064581	RC4-BT031
1129	193.8	7.0	434	28	BH152866	BH152866	UP_484-23
1130	193.8	7.0	437	9	AA644090	AA644090	ab62b04.s
1131	193.8	7.0	439	9	AA515728	AA515728	ng70f04.s
1132	193.8	7.0	454	9	AA935409	AA935409	oh33h10.s
c1133	193.8	7.0	463	28	AQ786116	AQ786116	HS_2210_B
1134	193.8	7.0	466	10	AW575000	AW575000	UI-HF-BN0
1135	193.8	7.0	524	12	BM997047	BM997047	UI-H-ED0-
c1136	193.8	7.0	530	28	AQ320953	AQ320953	RPCI11-10
c1137	193.8	7.0	534	12	BM314515	BM314515	ig51e09.y
c1138	193.8	7.0	540	13	BX505093	BX505093	DKFZp686G
c1139	193.8	7.0	586	10	AW811671	AW811671	CM2-ST015
1140	193.8	7.0	607	14	CF136528	CF136528	UI-HF-BN0
c1141	193.8	7.0	610	28	AQ479821	AQ479821	RPCI-11-2
c1142	193.8	7.0	618	13	BU729200	BU729200	UI-E-CL1-
1143	193.8	7.0	625	28	AQ533655	AQ533655	RPCI-11-3
1144	193.8	7.0	626	12	BQ016577	BQ016577	UI-H-DI0-
1145	193.8	7.0	652	28	AQ532981	AQ532981	RPCI-11-3
1146	193.8	7.0	669	12	BM997858	BM997858	UI-H-DI0-
1147	193.8	7.0	669	14	CB241724	CB241724	UI-CF-FN0
c1148	193.8	7.0	671	12	BG533420	BG533420	601860818
c1149	193.8	7.0	680	29	AG084547	AG084547	Pan trogl
1150	193.8	7.0	693	29	AG142072	AG142072	Pan trogl
c1151	193.8	7.0	756	14	CA748871	CA748871	UI-H-DF0-
c1152	193.8	7.0	779	28	AZ517787	AZ517787	RPCI-11-1
c1153	193.8	7.0	830	13	BU522107	BU522107	AGENCOURT
c1154	193.8	7.0	861	12	BG676827	BG676827	602623425
1155	193.8	7.0	890	28	AQ901377	AQ901377	HS_5234_A
c1156	193.8	7.0	908	9	AL563606	AL563606	AL563606
1157	193.8	7.0	965	13	BX350197	BX350197	BX350197
1158	193.8	7.0	2099	11	BC034268	BC034268	Homo sapi
c1159	193.6	7.0	337	10	BF887154	BF887154	PM4-TN017
1160	193.6	7.0	395	13	BU784539	BU784539	in16f10.x
c1161	193.6	7.0	400	9	AA506734	AA506734	nh46f11.s
1162	193.6	7.0	406	28	AQ636240	AQ636240	RPCI-11-4
c1163	193.6	7.0	407	9	AA535216	AA535216	nj75f05.s
1164	193.6	7.0	408	28	AQ091620	AQ091620	HS_3013_B
1165	193.6	7.0	412	28	AQ679861	AQ679861	HS_5457_A
1166	193.6	7.0	421	9	AI792521	AI792521	qi73c01.y
1167	193.6	7.0	437	13	BX482156	BX482156	DKFZp686E
c1168	193.6	7.0	446	10	BE140949	BE140949	MR0-HT006
c1169	193.6	7.0	452	28	AQ222936	AQ222936	HS_2013_A
c1170	193.6	7.0	481	14	CB105188	CB105188	K-EST0104
c1171	193.6	7.0	484	28	AQ020660	AQ020660	CIT-HSP-2
c1172	193.6	7.0	486	9	AA579152	AA579152	nf28a09.s
c1173	193.6	7.0	493	13	BU660198	BU660198	c157c09.z
1174	193.6	7.0	507	28	AQ219218	AQ219218	HS_3245_B
c1175	193.6	7.0	520	28	AQ538465	AQ538465	RPCI-11-3
1176	193.6	7.0	524	9	AI693979	AI693979	wd13c12.x
c1177	193.6	7.0	546	10	AW963895	AW963895	EST375968
c1178	193.6	7.0	558	28	AQ387790	AQ387790	RPCI11-15
1179	193.6	7.0	570	13	BX491191	BX491191	DKFZp686B
c1180	193.6	7.0	581	9	AL712022	AL712022	DKFZp686E
1181	193.6	7.0	597	9	AL707033	AL707033	DKFZp686K
c1182	193.6	7.0	602	14	CD693086	CD693086	EST9609 h
1183	193.6	7.0	631	13	BU674105	BU674105	UI-CF-DU0
1184	193.6	7.0	654	13	BX486664	BX486664	DKFZp686O
1185	193.6	7.0	663	14	CA309321	CA309321	UI-H-FT1-
c1186	193.6	7.0	682	28	AQ384309	AQ384309	RPCI11-13
1187	193.6	7.0	689	13	BU661880	BU661880	c178b10.z
c1188	193.6	7.0	701	28	AQ892946	AQ892946	HS_3131_B
c1189	193.6	7.0	705	12	BI255443	BI255443	602977939
1190	193.6	7.0	718	29	AG013538	AG013538	Homo sapi
c1191	193.6	7.0	750	28	BZ772257	BZ772257	mct92b11.
1192	193.6	7.0	788	28	BZ603697	BZ603697	WHADP19TF
1193	193.6	7.0	800	13	BU942620	BU942620	AGENCOURT
c1194	193.6	7.0	876	14	CD518646	CD518646	AGENCOURT
c1195	193.6	7.0	876	28	AQ742930	AQ742930	HS_5386_B
1196	193.6	7.0	904	13	BX454551	BX454551	BX454551
1197	193.6	7.0	926	13	BX431533	BX431533	BX431533
c1198	193.6	7.0	1888	11	BC037885	BC037885	Homo sapi
c1199	193.6	7.0	2048	11	BC017051	BC017051	Homo sapi
c1200	193.6	7.0	3780	11	BC033021	BC033021	Homo sapi
1201	193.4	7.0	295	12	BG940546	BG940546	ax06c08.f
c1202	193.4	7.0	308	13	BU953773	BU953773	AGENCOURT
c1203	193.4	7.0	333	13	BU540252	BU540252	AGENCOURT
c1204	193.4	7.0	362	10	BE139139	BE139139	xr67d11.x
1205	193.4	7.0	370	9	AA219349	AA219349	zr03d08.s
c1206	193.4	7.0	384	28	AQ100508	AQ100508	HS_3061_A
1207	193.4	7.0	392	12	BG944147	BG944147	ax47a10.x
1208	193.4	7.0	397	28	AQ604669	AQ604669	HS_2117_B
c1209	193.4	7.0	411	28	AQ674453	AQ674453	HS_5478_B
c1210	193.4	7.0	423	9	AI345334	AI345334	tb81g07.x
1211	193.4	7.0	423	28	AQ406210	AQ406210	HS_5047_B
1212	193.4	7.0	425	9	AI792499	AI792499	qi70a06.y
1213	193.4	7.0	442	28	AQ625470	AQ625470	CITBI-E1-
1214	193.4	7.0	450	9	AI079823	AI079823	ox50b05.x
c1215	193.4	7.0	450	28	AQ331706	AQ331706	HS_5011_A
1216	193.4	7.0	451	28	AQ268197	AQ268197	RPCI11-77
1217	193.4	7.0	466	28	AQ321673	AQ321673	RPCI11-81
1218	193.4	7.0	467	13	BU735183	BU735183	UI-E-DW0-
1219	193.4	7.0	468	28	AQ632508	AQ632508	RPCI-11-4
1220	193.4	7.0	476	13	BQ778347	BQ778347	il29e05.x
1221	193.4	7.0	479	10	AW151541	AW151541	xf65e09.x
c1222	193.4	7.0	497	14	CF140288	CF140288	UI-HF-CB0
c1223	193.4	7.0	527	28	AQ352469	AQ352469	CITBI-E1-
1224	193.4	7.0	533	12	BG944988	BG944988	ax57c09.x
c1225	193.4	7.0	538	10	BE062159	BE062159	RC1-BT025
1226	193.4	7.0	548	28	BH609883	BH609883	HIV21A08
c1227	193.4	7.0	555	28	AQ665447	AQ665447	HS_5369_A
c1228	193.4	7.0	563	9	AW068596	AW068596	cn21d03.x
c1229	193.4	7.0	581	14	CD702960	CD702960	EST19567
c1230	193.4	7.0	604	9	AV763457	AV763457	AV763457
c1231	193.4	7.0	605	28	BZ604986	BZ604986	WHAAV60TF
c1232	193.4	7.0	637	29	AG160849	AG160849	Pan trogl
c1233	193.4	7.0	646	13	BX643213	BX643213	DKFZp781E
c1234	193.4	7.0	653	10	BE178489	BE178489	RC3-HT060
c1235	193.4	7.0	653	29	AG137048	AG137048	Pan trogl
c1236	193.4	7.0	666	28	AQ751474	AQ751474	HS_5576_B
c1237	193.4	7.0	668	13	BX509747	BX509747	DKFZp686F
1238	193.4	7.0	713	14	CA308268	CA308268	UI-H-FT1-
c1239	193.4	7.0	714	29	AG165194	AG165194	Pan trogl
c1240	193.4	7.0	733	28	AQ531268	AQ531268	RPCI-11-3
1241	193.4	7.0	766	12	BQ000069	BQ000069	UI-H-DP0-
1242	193.4	7.0	771	13	BQ776208	BQ776208	UI-H-FH0-
c1243	193.4	7.0	779	9	AL571642	AL571642	AL571642
c1244	193.4	7.0	851	28	AQ896828	AQ896828	HS_3134_A
1245	193.4	7.0	900	13	BQ924076	BQ924076	AGENCOURT

c1246	193.4	7.0	963	28	BZ611284	BZ611284	WHACK88TF
c1247	193.4	7.0	1201	13	BX461508	BX461508	BX461508
1248	193.2	7.0	312	9	AI798493	AI798493	tr36b03.x
1249	193.2	7.0	314	9	AI537020	AI537020	to15a11.x
1250	193.2	7.0	337	9	AI369580	AI369580	ta69f04.x
c1251	193.2	7.0	363	9	AV762454	AV762454	AV762454
1252	193.2	7.0	368	10	BG059314	BG059314	nah48c05.
c1253	193.2	7.0	374	9	AL712126	AL712126	DKFZp686P
1254	193.2	7.0	380	10	AW275971	AW275971	xq42e06.x
1255	193.2	7.0	389	13	BX484792	BX484792	DKFZp686H
1256	193.2	7.0	397	9	AA282951	AA282951	zt15h02.r
1257	193.2	7.0	433	28	AQ457083	AQ457083	HS_2241_A
c1258	193.2	7.0	436	14	CD171992	CD171992	AGENCOURT
c1259	193.2	7.0	440	12	BI037013	BI037013	CM1-NT020
1260	193.2	7.0	453	10	AW513071	AW513071	xo40e04.x
c1261	193.2	7.0	464	28	AQ598684	AQ598684	HS_5336_B
c1262	193.2	7.0	469	14	CB309560	CB309560	AGENCOURT
c1263	193.2	7.0	491	10	BG000961	BG000961	IL0-GN024
c1264	193.2	7.0	493	28	AQ351342	AQ351342	RPCI11-11
1265	193.2	7.0	495	10	AW969743	AW969743	EST381821
1266	193.2	7.0	534	14	CF131447	CF131447	UI-HF-FQ0
c1267	193.2	7.0	547	9	AV758932	AV758932	AV758932
1268	193.2	7.0	580	10	AW965632	AW965632	EST377705
1269	193.2	7.0	612	28	AQ074914	AQ074914	CIT-HSP-2
c1270	193.2	7.0	615	28	AQ484654	AQ484654	RPCI-11-2
c1271	193.2	7.0	633	28	AQ484503	AQ484503	RPCI-11-2
1272	193.2	7.0	641	14	CF137095	CF137095	UI-HF-BN0
c1273	193.2	7.0	647	29	AG039308	AG039308	Pan trogl
c1274	193.2	7.0	663	29	AG156245	AG156245	Pan trogl
1275	193.2	7.0	683	28	AQ529650	AQ529650	RPCI-11-3
c1276	193.2	7.0	702	28	AQ540838	AQ540838	RPCI-11-3
1277	193.2	7.0	704	28	AQ318081	AQ318081	RPCI11-99
c1278	193.2	7.0	714	28	AQ878839	AQ878839	HS_3144_B
c1279	193.2	7.0	733	29	AG009187	AG009187	Homo sapi
c1280	193.2	7.0	735	14	CD101903	CD101903	AGENCOURT
c1281	193.2	7.0	735	29	AG009188	AG009188	Homo sapi
1282	193.2	7.0	861	28	AQ788037	AQ788037	HS_3129_A
c1283	193.2	7.0	886	10	BE973547	BE973547	601680909
c1284	193.2	7.0	963	13	BX444018	BX444018	BX444018
1285	193	7.0	333	9	AA570740	AA570740	nf21c07.s
c1286	193	7.0	344	10	BE138387	BE138387	xr74c03.x
1287	193	7.0	355	9	AI469599	AI469599	tm14c09.x
c1288	193	7.0	396	10	AW900516	AW900516	CM0-NN100
c1289	193	7.0	400	28	AQ152498	AQ152498	HS_3110_B
c1290	193	7.0	414	28	AQ115980	AQ115980	RPCI11-56
c1291	193	7.0	416	10	AW243831	AW243831	xo57b12.x
1292	193	7.0	416	28	AQ310777	AQ310777	CITBI-E1-
1293	193	7.0	439	10	AW474822	AW474822	xy20g09.x
c1294	193	7.0	451	9	AV763026	AV763026	AV763026
c1295	193	7.0	451	9	AV763058	AV763058	AV763058
c1296	193	7.0	464	28	AQ110616	AQ110616	CIT-HSP-2
1297	193	7.0	490	13	BQ181610	BQ181610	UI-H-EU0-
c1298	193	7.0	492	28	AQ554340	AQ554340	RPCI-11-4
1299	193	7.0	503	12	BM993453	BM993453	UI-H-DT0-
1300	193	7.0	505	28	AQ212632	AQ212632	HS_3115_B
c1301	193	7.0	514	28	AQ207701	AQ207701	HS_3026_B
c1302	193	7.0	517	28	AQ264959	AQ264959	CITBI-E1-
1303	193	7.0	544	9	AU144174	AU144174	AU144174
1304	193	7.0	549	10	AW976024	AW976024	EST388133
c1305	193	7.0	549	28	BZ599437	BZ599437	WHAAV88TF
1306	193	7.0	556	13	BU077042	BU077042	in20e10.x
c1307	193	7.0	561	28	AQ420332	AQ420332	RPCI-11-1
c1308	193	7.0	566	28	B72708	B72708	RPCI11-10B1
1309	193	7.0	568	10	AW971855	AW971855	EST383944
c1310	193	7.0	572	13	BU689887	BU689887	UI-CF-FN0
1311	193	7.0	574	14	CB154584	CB154584	K-EST0212
1312	193	7.0	593	12	BQ019757	BQ019757	UI-H-ED0-
c1313	193	7.0	602	13	BU602612	BU602612	AGENCOURT
c1314	193	7.0	644	29	AG057657	AG057657	Pan trogl
1315	193	7.0	668	10	BE742926	BE742926	601574905
c1316	193	7.0	703	28	AQ035234	AQ035234	CIT-HSP-2
c1317	193	7.0	724	28	AQ392119	AQ392119	CITBI-E1-
1318	193	7.0	725	29	AG071685	AG071685	Pan trogl
c1319	193	7.0	726	13	BX507038	BX507038	DKFZp779C
c1320	193	7.0	743	28	AQ391552	AQ391552	CITBI-E1-
c1321	193	7.0	772	28	BZ601785	BZ601785	WHABG65TR
1322	193	7.0	801	14	CB999384	CB999384	AGENCOURT
c1323	193	7.0	832	13	BX102078	BX102078	BX102078
1324	193	7.0	844	13	BQ961856	BQ961856	AGENCOURT
1325	193	7.0	916	28	AQ749291	AQ749291	HS_5576_A
c1326	193	7.0	922	14	CD244984	CD244984	AGENCOURT
1327	193	7.0	925	13	BQ433470	BQ433470	AGENCOURT
c1328	193	7.0	929	14	CD300528	CD300528	AGENCOURT
1329	193	7.0	971	12	BM908105	BM908105	AGENCOURT
1330	193	7.0	990	12	BM803650	BM803650	AGENCOURT
c1331	193	7.0	1021	12	BG565916	BG565916	602583084
c1332	193	7.0	1860	11	BC035958	BC035958	Homo sapi
c1333	193	7.0	4919	11	BC040674	BC040674	Homo sapi
1334	192.8	7.0	338	10	AW467497	AW467497	he19d12.x
1335	192.8	7.0	352	9	AA809089	AA809089	nv32e02.r
c1336	192.8	7.0	384	13	BU953876	BU953876	AGENCOURT
c1337	192.8	7.0	400	9	AV758870	AV758870	AV758870
c1338	192.8	7.0	416	9	AA916430	AA916430	oh81f04.s
1339	192.8	7.0	419	10	BE328291	BE328291	hs93e10.x
c1340	192.8	7.0	419	28	AQ631439	AQ631439	RPCI-11-4
1341	192.8	7.0	474	10	BE062484	BE062484	QV4-BT025
c1342	192.8	7.0	492	28	BH860924	BH860924	UP_315-5F
c1343	192.8	7.0	505	28	AQ203695	AQ203695	HS_3095_B
c1344	192.8	7.0	514	28	AQ052869	AQ052869	RPCI11-49
c1345	192.8	7.0	530	10	BF985049	BF985049	CM0-UM003
c1346	192.8	7.0	530	10	AW798093	AW798093	CM0-UM004
1347	192.8	7.0	583	28	AQ344515	AQ344515	RPCI11-11
c1348	192.8	7.0	587	12	BM781779	BM781779	K-EST0058
1349	192.8	7.0	646	12	BM666519	BM666519	UI-E-CQ1-
1350	192.8	7.0	648	28	AQ547540	AQ547540	RPCI-11-4
1351	192.8	7.0	655	29	AG106607	AG106607	Pan trogl
1352	192.8	7.0	655	29	AG119935	AG119935	Pan trogl
c1353	192.8	7.0	656	13	BU628525	BU628525	UI-H-FG0-
1354	192.8	7.0	676	29	AG065636	AG065636	Pan trogl
c1355	192.8	7.0	682	29	AG175743	AG175743	Pan trogl
c1356	192.8	7.0	684	29	AG009221	AG009221	Homo sapi
1357	192.8	7.0	698	29	AG085392	AG085392	Pan trogl
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c1359	192.8	7.0	722	29	AG001502	AG001502	Homo sapi
c1360	192.8	7.0	773	28	BZ608277	BZ608277	WHACA26TR
1361	192.8	7.0	802	13	BX101430	BX101430	BX101430
1362	192.8	7.0	823	14	CD101954	CD101954	AGENCOURT
c1363	192.8	7.0	824	12	BG107580	BG107580	602277730
c1364	192.8	7.0	866	28	AQ741588	AQ741588	HS_5567_B
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c1366	192.8	7.0	917	13	BQ721141	BQ721141	AGENCOURT
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1369	192.8	7.0	1181	12	BM467577	BM467577	AGENCOURT
1370	192.8	7.0	1439	12	BM803618	BM803618	AGENCOURT
1371	192.8	7.0	1915	11	BC012949	BC012949	Homo sapi
1372	192.6	7.0	303	9	AW073510	AW073510	xa36g07.x
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1386	192.6	7.0	452	12	BM845661	BM845661	K-EST0124
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1402	192.6	7.0	565	13	BX507590	BX507590 DKFZp686N
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c1410	192.6	7.0	670	29	AG073766	AG073766 Pan trogl
c1411	192.6	7.0	703	12	BG706072	BG706072 602669027
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1413	192.6	7.0	734	29	AG031294	AG031294 Pan trogl
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1421	192.6	7.0	884	12	BG251983	BG251983 602364621
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1446	192.4	7.0	669	29	AG148600	AG148600 Pan trogl
c1447	192.4	7.0	677	29	AG169901	AG169901 Pan trogl
c1448	192.4	7.0	686	29	AG157776	AG157776 Pan trogl
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1458	192.4	7.0	797	12	BG208667	BG208667 RST28299
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1497	192.2	7.0	712	28	AQ637221	AQ637221 RPCI-11-4
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ALIGNMENTS

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RESULT 1
CB997121
LOCUS       CB997121                 830 bp    mRNA    linear   EST 01-MAY-2003
DEFINITION  AGENCOURT_13622230 NIH_MGC_148 Homo sapiens cDNA clone
            IMAGE:30338074 5', mRNA sequence.
ACCESSION   CB997121
VERSION     CB997121.1  GI:30291641
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 830)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Dr. Stefan Hansson
             cDNA Library Preparation: Michael J. Brownstein (NHGRI) with help
            and advice from Piero Carninci (RIKEN)
             cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
             DNA Sequencing by: Agencourt Bioscience Corporation
             Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: NDAM364  row: c  column: 11
            High quality sequence stop: 601.
FEATURES             Location/Qualifiers
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                     5'-TTTTTTTTTTTTTTTVN-3', size-selected for average insert
                     size 2.3 kb  and normalized to ROT 5. This is a primary
                     library enriched for  full-lenght clones and constructed
                     using the Cap-trapper method  (Carninci, in preparation).
                     Library constructed by M. Brownstein  (NIMH/NHGRI,
                     National Institutes of Health). Note: this is a NIH_MGC
                     Library."
ORIGIN

  Query Match             24.5%;  Score 674.8;  DB 14;  Length 830;
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  Matches  712;  Conservative    0;  Mismatches    8;  Indels    3;  Gaps    3;

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RESULT 2
AL042492
LOCUS       AL042492                667 bp    mRNA    linear   EST 04-SEP-2003
DEFINITION  DKFZp434G1321_r1 434 (synonym: htes3) Homo sapiens cDNA clone
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ACCESSION   AL042492
VERSION     AL042492.2  GI:5935469
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
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            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 667)
  AUTHORS   Blum,H., Bauersachs,S., Mewes,H.W., Gassenhuber,J. and Wiemann,S.
  TITLE     EST (Blum, et al.)
  JOURNAL   Unpublished (1999)
COMMENT     On Jul 8, 1999 this sequence version replaced gi:5421952.
            Contact: MIPS
            MIPS
            Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany
            This is the 5' sequence of the clone insert
            Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
            Research Center (DKFZ); Email s.wiemann@dkfz- heidelberg.de;
            sequenced by LMU (Ludwig Maximilians University,
            Munich/Germany) within the cDNA sequencing consortium of the German
            Genome Project.
            No s1 sequence available.
            This clone (DKFZp434G1321) is available at the RZPD in Berlin.
            Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
            Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
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ORIGIN

  Query Match             23.8%;  Score 653;  DB 9;  Length 667;
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  Matches  664;  Conservative    0;  Mismatches    0;  Indels    1;  Gaps    1;

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Db        361 CACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCT 420

Qy       2340 GGTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATT 2399
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 GGTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAAATTGCCGGGATT 480

Qy       2400 ACAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTT 2459
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 ACAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAATTAAGAGTTGTT 540

Qy       2460 CAGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCC 2519
                 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 CAGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAAAAAATGTCACCC 600

Qy       2520 ATAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCC-TTCCACTCTTTTCT 2578
                 ||||||||||||||||||||||||||||||||||||||||||| |||||||||||||||
Db        601 ATAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTTCCACTCTTTTCT 660

Qy       2579 TCTTC 2583
                 |||||
Db        661 TCTTC 665
```

RESULT 3
BG723031
LOCUS BG723031 629 bp mRNA linear EST 08-MAY-2001
DEFINITION 602695569F1 NIH_MGC_97 Homo sapiens cDNA clone IMAGE:4827737 5', mRNA sequence.
ACCESSION BG723031
VERSION BG723031.1 GI:14002218
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 629)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki Toshiyuki and Piero Carninci (RIKEN)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM10744 row: i column: 18
High quality sequence stop: 629.
FEATURES Location/Qualifiers
source 1. .629
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4827737"
/lab_host="DH10B"
/clone_lib="NIH_MGC_97"
/note="Organ: testis; Vector: pBluescriptR (modified pBluescript KS+); Site_1: BamHI; Site_2: SalI-XhoI (gtcgag); Oligo-dT primed using primer 5'-TTTTTTTTTTTTTTTVN-3', size-selected for average insert size 2.2 kb and normalized to ROT 5. This is a primary library enriched for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation). Library constructed by M. Brownstein (NIMH/NHGRI, National Institutes of Health). Note: this is a NIH_MGC Library."
ORIGIN

Query Match 20.5%; Score 564.6; DB 12; Length 629;
Best Local Similarity 98.7%; Pred. No. 1.3e-98;
Matches 601; Conservative 0; Mismatches 4; Indels 4; Gaps 3;

```
Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         23 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 82

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         83 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 142

Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        143 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 202

Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        203 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 262

Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        263 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 322

Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        323 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 382

Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        383 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 442

Qy        421 TCC--CCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAG 478
              |||  | |  ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        443 TCCCGCTTCATCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAG 502

Qy        479 CTCAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAG 538
              |||||||||||||||||||||| |||||||||||||||||||||||||| ||||||||
Db        503 CTCAGCAAACCCAGCCCCCAGGA-TGACTTCTCCTGGGCTCTACCCGGCAG-CACCACAG 560

Qy        539 CCAAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGC 598
              |||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||||
Db        561 CCAAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGAACTTCCCAGTACGGGC 620

Qy        599 ACGAAAGGA 607
              |||||||||
Db        621 ACGAAAGGA 629
```

RESULT 4
U70073
LOCUS U70073 617 bp mRNA linear EST 01-OCT-1996
DEFINITION HSU70073 Human Homo sapiens cDNA clone BCCL1, mRNA sequence.
ACCESSION U70073
VERSION U70073.1 GI:1572731
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 617)
AUTHORS Jones,K.A., Black,D.B., Brown,M.A., Griffiths,B.L., Nicolai,H., Chambers,J.A., Bonjardim,M., Xu,C.-F., Boyd,M., McFarland,R., Korn,B., Poustka,A., North,M., Schalkwyk,L., Lehrach,H. and Solomon,E.
TITLE The detailed characterisation of a 400 kb cosmid walk in the BRCA1 region: identification and localisation of 10 genes including a dual-specificity phosphatase
JOURNAL Hum. Mol. Genet. 3, 1927-1934 (1994)
MEDLINE 95179106
PUBMED 7874108
COMMENT Contact: Chambers, Julie
Somatic Cell Genetics
Imperial Cancer Research Fund

```
          44 Lincolns Inn fields, London WC2A 3PX, UK
          Email: chambers@icrf.icnet.uk.
FEATURES             Location/Qualifiers
     source          1. .617
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /map="17q21"
                     /clone="BCCL1"
                     /clone_lib="Human"
ORIGIN

  Query Match            20.4%;  Score 560.8;  DB 14;  Length 617;
  Best Local Similarity   97.9%;  Pred. No. 6.9e-98;
  Matches  568;  Conservative    0;  Mismatches   12;  Indels    0;  Gaps    0;

Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||| ||||||
Db         38 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGGCTGCTG 97

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
              |||||||||||||||||||||||| ||||||||||||||||||||||||||||||||||||
Db         98 CTCCCAGGTTATGAAGCCCTGGAGGGGCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 157

Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
              |||||||||||||||||||||||||||||||||||||  ||||||||||||||||||||||
Db        158 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGGACACCGGAAGTACTGGTGCAGG 217

Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
              |||||||||||||||||||||||||||||||  ||||||||||||||||||||||||||
Db        218 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCCACATCTATGCAGAAGAAGAAGGCCAG 277

Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
              |||||||||||||||||| ||||||||||||||||||||||||||||||||||||||||||
Db        278 GAGACAATGAAGGGCAGGTTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 337

Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||| ||||||
Db        338 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAGAAACGG 397

Qy        361 GGCCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
              | ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        398 GCCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 457

Qy        421 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCT 480
              |||||||||||||||||||||||||||||||||||||||||||||||| |||||| ||||||||
Db        458 TCCCCTTCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAACCCAAGCCAAAAGCT 517

Qy        481 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 540
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        518 CAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCC 577

Qy        541 AAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAG 580
              |||||||||||||||||| ||||||||||||||||||||
Db        578 AAGCAGGGGAAGACAGGGGCCGAGGCCCCTCCATTGCCAG 617


RESULT 5
BG546890
LOCUS       BG546890                686 bp    mRNA    linear   EST 04-APR-2001
DEFINITION  602574073F1 NIH_MGC_77 Homo sapiens cDNA clone IMAGE:4702003 5',
            mRNA sequence.
ACCESSION   BG546890
VERSION     BG546890.1  GI:13545555
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 686)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: CLONTECH Laboratories, Inc.
            cDNA Library Preparation: CLONTECH Laboratories, Inc.
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
           found through the I.M.A.G.E. Consortium/LLNL at:
           http://image.llnl.gov
           Plate: LLCM1538  row: b  column: 20
           High quality sequence stop: 683.
FEATURES             Location/Qualifiers
     source          1. .686
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:4702003"
                     /lab_host="DH10B (T1 phage-resistant)"
                     /clone_lib="NIH_MGC_77"
                     /note="Organ: lung; Vector: pDNR-LIB (Clontech); Site_1:
                     SfiI (ggccgcctcggcc); Site_2: SfiI (ggccattatggcc); 5' and
                     3' adaptors were used in cloning as follows: 5' adaptor
                     sequence:  5'-CACGGCCATTATGGCC-3' and 3' adaptor sequence:
                     5'-ATTCTAGAGGCCGAGGCGGCCGACATG-dT(30)BN-3' (where B = A,
                     C, or G and N = A, C,  G, or T).  Average insert size 1.9
                     kb (range 0.5-4.0 kb). 12/15 colonies contained inserts
                     by PCR. This library was enriched for full-length clones
                     and was constructed by Clontech  Laboratories (Palo Alto,
                     CA). Note: this is a NIH_MGC Library."
ORIGIN

  Query Match            19.8%;  Score 543.2;  DB 12;  Length 686;
  Best Local Similarity   97.2%;  Pred. No. 1.7e-94;
  Matches  669;  Conservative    0;  Mismatches    8;  Indels   11;  Gaps   11;

Qy       1569 GGCCCCACCAAGACCCACCAAAACCATCTCT-GGGCTTGGTGCAGGACTCTGAA-TTCTA 1626
              |||||||||||||||||||||||||||||||| |||||||||||||||||||| |||||
Db          2 GGCCCCACCAAGACCCACCAAAACCATCTCTGGGGCTTGGTGCAGGACTCTGAATTTCTA 61

Qy       1627 ACAATGCCCAGTGACTGTCGCACTTGAGTTTGAGGGCCAGTGGGCCTGATGAACGCTCAC 1686
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         62 ACAATGCCCAGTGACTGTCGCACTTGAGTTTGAGGGCCAGTGGGCCTGATGAACGCTCAG 121

Qy       1687 ACCCCTTCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCT-CCACCTGCCCCAAT-AGAT 1744
              |||||| |||||||||||||||||||||||||||||||| |||||||||||||| |||| 
Db        122 ACCCCTCCAGCTTAGAGTCTGCATTTGGGCTGTGACGTCTCCCACCTGCCCCAATAAGAT 181

Qy       1745 CTGCTCTGTCTGCGACACC-AGATCCACGTGGGGACTCCCCTGAGGCCTG-CTAAGTCCA 1802
              |||||||||||||||||| ||||||| |||||||||||||||||||| |||||||||
Db        182 CTGCTCTGTCTGCGACACCAAGATCCAGCTGGGGACTCCCCTGAGGCCTGCCTAAGTCCA 241

Qy       1803 GGCCTTGGTCAGGTCAGGTGCACATTGCA-GGATAAGCCCAGGACCGGCACAGAAGTGGT 1861
              |||||||||||||||||||||||||||||| |||||||||||||||||||| || ||||||
Db        242 GGCCTTGGTCAGGTCAGGTGCACATTGCAGGGATAAGCCCAGGACCGGCAGAG-AGTGGT 300

Qy       1862 TGCCTTTNCCATTTGCCCTCCCTGGNCCATGCCTTCTTGCCTTTGGAAAAAATGATGAAG 1921
              ||||||| |||||||||||||||| |||||||||||||||||| ||||||||||||||
Db        301 TGCCTTT-CCATTTGCCCTCCCTGG-CCATGCCTTCTTGCCTTTGG-AAAAATGATGAAG 357

Qy       1922 AAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTAG 1981
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        358 AAAACCTTGGCTCCTTCCTTGTCTGGAAAGGGTTACTTGCCTATGGGTTCTGGTGGCTAG 417

Qy       1982 AGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACAG 2041
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        418 AGAGAAAAGTAGAAAACCAGAGTGCACGTAGGTGTCTAACACAGAGGAGAGTAGGAACAG 477

Qy       2042 GGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTGG 2101
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        478 GGCGGATACCTGAAGGTGACTCCGAGTCCAGCCCCCTGGAGAAGGGGTCGGGGGTGGTGG 537

Qy       2102 TAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATTGTTTTTTAAGACAGAA 2161
              |||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||||
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Db        538 TAAAGTAGCACAACTACTATTTTTTTTCTTTTTCCATTATTATGGTTTTTTAAGACAGAA 597

Qy       2162 TCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGGG 2221
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        598 TCTCGTGCTGCTGCCCAGGCTGGAGTGCAGTGGCACGATCTGCAAACTCCGCCTCCTGGG 657

Qy       2222 TTCAAGTGATTCTTCTGCCTCAGCCTCC 2249
             |||||||||||||||||||||||||  ||
Db        658 TTCAAGTGATTCTTCTGCCTCAGCTCCC 685


RESULT 6
BX280256/c
LOCUS       BX280256                493 bp    mRNA    linear   EST 04-MAR-2003
DEFINITION  BX280256 NIH_MGC_97 Homo sapiens cDNA clone IMAGp998I1810744 ;
            IMAGE:4827737, mRNA sequence.
ACCESSION   BX280256
VERSION     BX280256.1  GI:28613722
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 493)
  AUTHORS   Ebert,L., Heil,O., Hennig,S., Neubert,P., Partsch,E., Peters,M.,
            Radelof,U., Schneider,D. and Korn,B.
  TITLE     Human UnigeneSet - RZPD3
  JOURNAL   Unpublished (2003)
COMMENT     Contact: Ina Rolfs
            RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH
            Im Neuenheimer Feld 580, D-69120 Heidelberg, Germany
            RZPD; IMAGp998I1810744.
            RZPDLIB; I.M.A.G.E. cDNA Clone Collection;
            Human UnigeneSet - RZPD3 (RZPDLIB No.972)
            http://www.rzpd.de/CloneCards/cgi-
            bin/showLib.pl.cgi/response?libNo=972 Contact: Ina Rolfs
            RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH
            Heubnerweg 6, D-14059 Berlin, Germany
            Tel: +49 30 32639 101
            Fax: +49 30 32639 111
            www.rzpd.de
            This clone is available royalty-free from RZPD;
            contact RZPD (clone@rzpd.de) for further information. Seq primer:
            M13r, Primer sequence: TTTCACACAGGAAACAGCTATGAC.
FEATURES             Location/Qualifiers
     source          1. .493
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGp998I1810744 ; IMAGE:4827737"
                     /lab_host="DH10B"
                     /clone_lib="NIH_MGC_97"
                     /note="Organ: testis; Vector: pBluescriptR (modified
                     pBluescript KS+); Site_1: BamHI; Site_2: SalI-XhoI
                     (gtcgag); Oligo-dT primed using primer
                     5'-TTTTTTTTTTTTTTTVN-3', size-selected for average
                     insert size 2.2 kb and normalized to ROT 5. This is a
                     primary library enriched for full-length clones and
                     constructed using the Cap-trapper method (Carninci, in
                     preparation). Library constructed by M. Brownstein
                     (NIMH/NHGRI, National Institutes of Health). Note: this is
                     a NIH_MGC Library."
ORIGIN

  Query Match             16.8%;  Score 462.8;  DB 13;  Length 493;
  Best Local Similarity   98.5%;  Pred. No. 6.1e-79;
  Matches  475;  Conservative    0;  Mismatches    6;  Indels    1;  Gaps    1;

Qy       2268 GGCACGCACCACCACACCTGGCTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCAT 2327
             |||||||  | |||||||  || ||||||||||||||||||||||||||||||||||||||
Db        493 GGCACGCNNCCCCACACC-GGNTAATTTTTGTACTTTTAGTAGAGATGGGGTTTCACCAT 435

Qy       2328 GTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAA 2387
             |||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        434 GTTGNCCAGGCTGGTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCTCCCAA 375

Qy       2388 ATTGCCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAA 2447
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        374 ATTGCCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAGTGAAA 315

Qy       2448 TTAAGAGTTGTTCAGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAA 2507
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        314 TTAAGAGTTGTTCAGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGAAGAAA 255

Qy       2508 AAAATGTCACCCATAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTC 2567
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        254 AAAATGTCACCCATAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTTCCTTC 195

Qy       2568 CACTCTTTTCTTCTTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTAT 2627
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        194 CACTCTTTTCTTCTTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCTTGTAT 135

Qy       2628 ATACAACTTTGTATCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTC 2687
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        134 ATACAACTTTGTATCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGCACTTC 75

Qy       2688 TCTGTGTTTTACAGACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAAAAAAAA 2747
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          74 TCTGTGTTTTACAGACCTTTTTATAAATAAAATGTTCATCAGCTGCAAAAAAAAAAAAAA 15

Qy       2748 AA 2749
             ||
Db          14 AA 13


RESULT 7
CB555136
LOCUS       CB555136                644 bp    mRNA    linear   EST 01-JUN-2003
DEFINITION  MMSP0041_F05 MMSP Macaca mulatta cDNA, mRNA sequence.
ACCESSION   CB555136
VERSION     CB555136.1  GI:31304331
KEYWORDS    EST.
SOURCE      Macaca mulatta (rhesus monkey)
  ORGANISM  Macaca mulatta
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
            Cercopithecinae; Macaca.
REFERENCE   1  (bases 1 to 644)
  AUTHORS   Katze,M.G., Bumgarner,R., Korth,M., Feldman,R., Amjadi,M. and
            Holzman,T.
  TITLE     Expressed sequence tags from Rhesus macaque spleen
  JOURNAL   Unpublished (2002)
COMMENT     Contact: Holzman T
            Katze Lab
            University of Washington
            Box 358070, Seattle, WA 98195-8070, USA
            Tel: 206 732 6156
            Fax: 206 732 6055
            Email: ted@locke.hs.washington.edu
            Similar to GenBank entry BC025395 BC025395 Homo sapiens, similar to
            CMRF35 ANTIGEN PRECURSOR, clone MGC:26887 IMAGE:4827737, mRNA,
            complete cds. 3/2002
            Plate: MMSP0041  row: F  column: 05.
FEATURES             Location/Qualifiers
     source          1. .644
                     /organism="Macaca mulatta"
                     /mol_type="mRNA"
                     /db_xref="taxon:9544"
                     /sex="male"
                     /cell_type="monocytes"
                     /dev_stage="adult"
                     /clone_lib="MMSP"
                     /note="Organ: spleen"
ORIGIN

  Query Match             15.2%;  Score 417.4;  DB 14;  Length 644;
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  Best Local Similarity   89.8%;  Pred. No. 3.3e-70;
  Matches  582;  Conservative    0;  Mismatches   52;  Indels   14;  Gaps   12;

Qy       1356 CTCCTGGGCCTCATGCCCAGTGTCGGACCCTGCCTTCCTCCCACTCCAGACCCCACCTTG 1415
             ||||||||||||||| |||||||||| |||||||||||| ||||||| |||||||||
Db          4 CTCCTGGGCCTCATG-CCAGTGTCGGA-CCTGCCTTCCTCCCGCTCCAGA-CCCACCTTG 60

Qy       1416 TCTTCCCTCCCTGGCGTCCTCAGACTTAGTCCCACGGTCTCCTGCATCAGCTGGTGATGA 1475
             || ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 TCCTCCCTCCCTGGCGTCCTCAGACTTAGTCCCACGGTCTCCTGCATCAGCTGGTGATGA 120

Qy       1476 AGAGGAGCATGCTGGGGTGAGACTGGGATTCTGGCTTCTCTTTGAACCACCTGCAT-CCA 1534
               |||||||||||||||||||||||||||||| |||||||||| ||||||| |||
Db        121 CAAGGAGCATGCTGGGGTGAGACTGGGATTCTGGCTCCTCTTTGAACCCCCTGCATCCCA 180

Qy       1535 GCCCTTCAGGAAGCCTGTGAAAAACGTGATTCCTGGCCCCACCAAGACCCACCAAAACCA 1594
             |||||||||||||||||||||||||| |||||||||| || ||||||||||||||||||||
Db        181 GCCCTTCAGGAAGCCTGTGAAAAATGTGATTCCTGGGCCAACCAAGACCCACCAAAACCA 240

Qy       1595 TCTCTGGG-CTTGGTGCAGGACTCTGAA-TTCTAACAATGCCCAGTGACTGTCGCACTTG 1652
             |||||||| |||||||||||||||||| |||||||||||||||||||||||||||||||
Db        241 TCTCTGGGACTTGGTGCAGGACTCTGAATTTCTAACAATGCCCAGTGACTGTCGCACTTG 300

Qy       1653 AGTTTGAGGGCCAGTGGGCCTGATGAACGCTCACACCCCTTCAGCTTAGAGTCTGCATTT 1712
             ||||||||| ||||  |||||||||||||||||| |||||| ||||||||||||||||||||
Db        301 AGTTTGAGGACCAGCAGGCCTGATGAACGCTCAGACCCCTCCAGCTTAGAGTCTGCATTT 360

Qy       1713 GGGCTGTGACGTCTCC--ACCTGCCCCAATAGATCTGCTCTGTCTGCGACACCA-GATCC 1769
             ||||||||||||||||    |    |||||  |||||||||||||||||| ||||||| || ||
Db        361 GGGCTGTGACGTCTCCCACCTGCCCCCATAAGATCTGCTCTGTCTGTGACACCATGACCC 420

Qy       1770 ACGTGGGGACTCCCCTGAGGCCTG-CTAAGTCCAGGCCTTGGTCAGGTCAGGTGCACATT 1828
             |  |||| |||||||||||||||| ||||||||| |||| | ||||||||||||||||||||
Db        421 AGCTGGGCACTCCCCTGAGGCCTGCCTAAGTCCAAGCCTGGATCAGGTCAGGTGCACATT 480

Qy       1829 GCAGGATAAGCCCAGGACCGGCACAGAAGTGGTTGCCTTTNCCATTTGCCCTCCCTGGNC 1888
             |||||   |  ||  |  |    |  |||||||||  || |||||  |||||||||| |
Db        481 GCAGGGATAAGCCCAGGACCAGCCGAGAGTGGTTGC--TTTCCATTCACCCTCCCTGG-C 537

Qy       1889 CATGCCTTCTTGCCTTTGGAAAAAATGATGAAGAAAACCTTGGCTCCTTCCTTGTCTGGA 1948
             |||||||||||||||||| |||||||||||||||||||||||||||||||||||||||| ||
Db        538 CATGCCTTCTTGCCTTTGG-AAAAATGATGAAGAAAACCTTGGCTCCTTCCTTGTCTAGA 596

Qy       1949 AAGGGTTACTTGCCTATGGGTTCTGGTGGCTAGAGAGAAAAGTAGAAA 1996
             ||||| ||||||||||||| |||||||||||||||||||| ||||| ||
Db        597 AAGGGCTACTTGCCTATGGGCTCTGGTGGCTAGAGAGAAGAGTAGGAA 644


RESULT 8
BX102384
LOCUS       BX102384                438 bp    mRNA    linear   EST 06-FEB-2003
DEFINITION  BX102384 Soares_testis_NHT Homo sapiens cDNA clone IMAGp998L064492
            ; IMAGE:1836821, mRNA sequence.
ACCESSION   BX102384
VERSION     BX102384.1  GI:27845269
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 438)
  AUTHORS   Ebert,L., Heil,O., Hennig,S., Neubert,P., Partsch,E., Peters,M.,
            Radelof,U., Schneider,D. and Korn,B.
  TITLE     Human UnigeneSet - RZPD3
  JOURNAL   Unpublished (2003)
COMMENT     Contact: Ina Rolfs
            RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH
            Im Neuenheimer Feld 580, D-69120 Heidelberg, Germany
            RZPD; IMAGp998L064492.
            RZPDLIB; I.M.A.G.E. cDNA Clone Collection;
            Human UnigeneSet - RZPD3 (RZPDLIB No.972)
            http://www.rzpd.de/CloneCards/cgi-
            bin/showLib.pl.cgi/response?libNo=972 Contact: Ina Rolfs
            RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH
            Heubnerweg 6, D-14059 Berlin, Germany
            Tel: +49 30 32639 101
            Fax: +49 30 32639 111
            www.rzpd.de
            This clone is available royalty-free from RZPD;
            contact RZPD (clone@rzpd.de) for further information. Seq primer:
            M13r, Primer sequence: TTTCACACAGGAAACAGCTATGAC.
FEATURES             Location/Qualifiers
     source          1. .438
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGp998L064492 ; IMAGE:1836821"
                     /sex="male"
                     /lab_host="DH10B"
                     /clone_lib="Soares_testis_NHT"
                     /note="Vector: pT7T3D-Pac (Pharmacia) with a modified
                     polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA
                     was prepared from mRNA obtained from Clontech
                     Laboratories, Inc., and primed with  a Not I - oligo(dT)
                     primer [5'
                     TGTTACCAATCTGAAGTGGGAGCGGCCGCCCAATTTTTTTTTTTTTTTT 3'].
                     Double-stranded cDNA was ligated to Eco RI adaptors
                     (Pharmacia), digested with Not I and cloned into the Not I
                     and Eco RI sites of the modified pT7T3 vector. Library
                     went through one round of normalization to Cot5, and was
                     constructed  by Bento Soares and M. Fatima Bonaldo. "
ORIGIN

  Query Match           15.1%;  Score 414.2;  DB 13;  Length 438;
  Best Local Similarity   98.1%;  Pred. No. 1.5e-69;
  Matches  419;  Conservative    0;  Mismatches    8;  Indels    0;  Gaps    0;

Qy       2323 ACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCT 2382
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 ACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAATGAGCCTCCTGCTTCAGTCT 60

Qy       2383 CCCAAATTGCCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAG 2442
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CCCAAATTGCCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATTTCCTTTAAAAAG 120

Qy       2443 TGAAATTAAGAGTTGTTCAGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGA 2502
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 TGAAATTAAGAGTTGTTCAGTATGCAAAACTTGGAAAGATGGAGGAGAAAAAGAAAAGGA 180

Qy       2503 AGAAAAAAATGTCACCCATAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTT 2562
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 AGAAAAAAATGTCACCCATAGTCTCACCAGAGACTATCATTATTTCGTTTTGTTGTACTT 240

Qy       2563 CCTTCCACTCTTTTCTTCTTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCT 2622
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 CCTTCCACTCTTTTCTTCTTCACATAATTTGCCGGTGTTCTTTTTACAGAGCAATTATCT 300

Qy       2623 TGTATATACAACTTTGTATCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGC 2682
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 TGTATATACAACTTTGTATCCTGCCTTTTCCACCTTATCGTTCCATCACTTTATTCCAGC 360

Qy       2683 ACTTCTCTGTGTTTTACAGACCTTTTTATAAATAAAATGTTCATCAGCTGCATAAAAAAA 2742
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||    |
Db        361 ACTTCTCTGTGTTTTACAGACCTTTTTATAAATAAAATGTTCATCAGCTGCATATTCCAT 420

Qy       2743 AAAAAAA 2749
                 ||||
Db        421 CCTAAAA 427


RESULT 9
BX356362
LOCUS       BX356362                1201 bp    mRNA    linear   EST 05-MAY-2003
DEFINITION  BX356362 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA
            clone CS0DI011YE10 5-PRIME, mRNA sequence.
ACCESSION   BX356362
```

```
VERSION     BX356362.1  GI:30368017
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 1201)
  AUTHORS   Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
  TITLE     Full-length cDNA libraries and normalization
  JOURNAL   Unpublished (2001)
COMMENT     Contact: Genoscope
            Genoscope - Centre National de Sequencage
            BP 191 91006 EVRY cedex - France
            Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
            Library was constructed by Life Technologies, a division of
            Invitrogen. This sequence belongs to sequence cluster 8555.f For
            more information about this cluster, see
            http://www.genoscope.cns.fr/
            cgi-bin/cluster.cgi?seq=CS0DI011BC05QP1&cluster=8555.f. Contact :
            Feng Liang Email : fliang@lifetech.com URL :
            http://fulllength.invitrogen.com/ InVitroGen Corporation 1600
            Faraday Avenue Genoscope sequence ID : CS0DI011BC05QP1.
FEATURES             Location/Qualifiers
     source          1. .1201
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="CS0DI011YE10"
                     /tissue_type="PLACENTA COT 25-NORMALIZED"
                     /clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
                     /note="1st strand cDNA was primed with a NotI-oligo(dT)
                     primer. Five prime end enriched, double-strand cDNA was
                     digested with Not I and cloned into the Not I and EcoR V
                     sites of the pCMVSPORT 6 vector. Library was normalized."
ORIGIN

  Query Match             14.9%;  Score 409;  DB 13;  Length 1201;
  Best Local Similarity   97.6%;  Pred. No. 1.1e-68;
  Matches  415;  Conservative    0;  Mismatches   10;  Indels    0;  Gaps    0;

Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         86 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 145

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        146 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 205

Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        206 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 265

Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        266 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 325

Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        326 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 385

Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        386 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 445

Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCC 420
              ||||||||||||||||||||||||||||||||||||||||||    | | | ||   ||
Db        446 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGTAACAGATATCTCTCC 505

Qy        421 TCCCC 425
              | |||
Db        506 TTCCC 510
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RESULT 10
F22780
LOCUS       F22780                   416 bp    mRNA    linear   EST 13-MAY-1999
DEFINITION  HSPD07683 HM3 Homo sapiens cDNA clone NOTAVAIL07683, mRNA sequence.
ACCESSION   F22780
VERSION     F22780.1  GI:2061956
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 416)
  AUTHORS   Lanfranchi,G., Muraro,T., Caldara,F., Pacchioni,B., Pallavicini,A.,
            Pandolfo,D., Toppo,S., Trevisan,S., Scarso,S. and Valle,G.
  TITLE     Identification of 4370 expressed sequence tags from a
            3'-end-specific cDNA library of human skeletal muscle by DNA
            sequencing and filter hybridization
  JOURNAL   Genome Res. 6 (1), 35-42 (1996)
  MEDLINE   96276048
   PUBMED   8681137
COMMENT     Contact: Valle G.
            CRIBI Biotechnology Centre
            University of Padua
            Via Trieste 75, 35121 Padua, Italy
            ABI Chromatograms and other information are available on WWW at
            http://grup.bio.unipd.it
            POLYA=No.
FEATURES             Location/Qualifiers
     source          1. .416
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="NOTAVAIL07683"
                     /sex="female"
                     /tissue_type="pectoral muscle (after mastectomy)"
                     /clone_lib="HM3"
                     /note="Vector: pcDNAII (Invitrogen); Site_1: BstXI;
                     Site_2: NotI; The library was constructed by G.
                     Lanfranchi. This library is not subtracted nor normalized.
                     The first strand cDNA was primed with a biotinylated
                     oligo-dT-NotI primer
                     (5'-biotin-AACCCGGCTCGAGCGGCCGCTTTTTTTTTTTTTTTT-3'). The
                     ds cDNA was sonicated and size-selected in the range
                     350-550  bp. The 3' specific fragments were selected by
                     streptavidin coated magnetic beads, ligated to
                     non-palindromic BstXI adapters, NotI digested and
                     directionally cloned into BstXI-NotI cut pcDNAII vector."
ORIGIN

  Query Match             14.9%;  Score 408.4;  DB 14;  Length 416;
  Best Local Similarity   98.3%;  Pred. No. 2.1e-68;
  Matches  409;  Conservative    0;  Mismatches    7;  Indels    0;  Gaps    0;

Qy       2315 GGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAATGAGCCTCCTGC 2374
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 GGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAATGAGCCTCCTGC 60

Qy       2375 TTCAGTCTCCCAAATTGCCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATTTCCT 2434
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 TTCAGTCTCCCAAATTGCCGGGATTACAGGCATGAGCCACTGTGTCTGGCCCTATTTCCT 120

Qy       2435 TTAAAAAGTGAAATTAAGAGTTGTTCAGTATGCAAAACTTGGAAAGATGGAGGAGAAAAA 2494
              ||| |||||||||||||||||||||||||||||| ||||||||||||||||||||||||
Db        121 TTANAAAGTGAAATTAAGAGTTGTTCAGTATGCAAAANTTGGAAAGATGGAGGAGAAAAA 180

Qy       2495 GAAAAGGAAGAAAAAAATGTCACCCATAGTCTCACCAGAGACTATCATTATTTCGTTTTG 2554
              |||||||||||| ||||||||||||||||||||||||||||||||||||||||||||||
Db        181 GAAAAGGAAGAANAAAATGTCACCCATAGTCTCACCAGAGACTATCATTATTTCGTTTTG 240

Qy       2555 TTGTACTTCCTTCCACTCTTTTCTTCTTCACATAATTTGCCGGTGTTCTTTTTACAGAGC 2614
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TTGTACTTCCTTCCACTCTTTTCTTCTTCACATAATTTGCCGGTGTTCTTTTTACAGAGC 300
```

```
Qy       2615 AATTATCTTGTATATACAACTTTGTATCCTGCCTTTTCCACCTTATCGTTCCATCACTTT 2674
              |||||||||||| |||||||||||| ||||||||||||||||||||||||||||||||||
Db        301 AATTATCTTGTNTATACAACTTTGTNTCCTGCCTTTTCCACCTTATCGTTCCATCACTTT 360

Qy       2675 ATTCCAGCACTTCTCTGTGTTTTACAGACCTTTTTATAAATAAAATGTTCATCAGC 2730
              |||||||||||||||||| |||||||||||||||||||||||| ||||||||
Db        361 ATTCCAGCACTTCTCTGTGNTTTACAGACCTTTTTATAAATAAAATGGTCATCAGC 416


RESULT 11
CF994396
LOCUS       CF994396                 893 bp    mRNA    linear   EST 25-NOV-2003
DEFINITION  AGENCOURT_15624269 NIH_MGC_147 Homo sapiens cDNA clone
            IMAGE:30520582 5', mRNA sequence.
ACCESSION   CF994396
VERSION     CF994396.1  GI:38510456
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 893)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Daniela S. Gerhard, Ph.D.
            Office of Cancer Genomics
            National Cancer Institute / NIH
            Bldg. 31 Rm10A07 Bethesda, MD 20892
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Dr. Stefan Hansson
             cDNA Library Preparation: Michael J. Brownstein (NHGRI) with help
            and advice from Piero Carninci (RIKEN)
             cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
             DNA Sequencing by: Agencourt Bioscience Corporation
             Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: NDAM593  row: o  column: 23
            High quality sequence stop: 322.
FEATURES             Location/Qualifiers
     source          1. .893
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:30520582"
                     /tissue_type="Human Placenta"
                     /lab_host="DH10B TonA"
                     /clone_lib="NIH_MGC_147"
                     /note="Organ: placenta; Vector: pBluescriptR; Site_1:
                     alI-XhoI; Site_2: BamH; Oligo-dT primed using primer
                     5'-TTTTTTTTTTTTTTTTVN-3', size-selected  for average
                     insert size 2.3 kb and normalized to ROT 5. This is a
                     primary library enriched for full-length clones and
                     constructed using  the Cap-trapper method (Carninci, in
                     preparation). Library constructed  by M. Brownstein
                     (NIMH/NHGRI, National Institutes of Health). Note: This is
                     a NIH_MGC library."
ORIGIN

  Query Match            14.6%;  Score 401.4;  DB 14;  Length 893;
  Best Local Similarity   99.8%;  Pred. No. 3.7e-67;
  Matches  402;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         45 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 104

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        105 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 164

Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        165 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 224

Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        225 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 284

Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        285 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 344

Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||| ||||||||
Db        345 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCCAAAAACGG 404

Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAG 403
              |||||||||||||||||||||||||||||||||||||||||||
Db        405 GGCCCCGATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAG 447


RESULT 12
CF994398
LOCUS       CF994398                1195 bp    mRNA    linear   EST 25-NOV-2003
DEFINITION  AGENCOURT_15621561 NIH_MGC_147 Homo sapiens cDNA clone
            IMAGE:30520579 5', mRNA sequence.
ACCESSION   CF994398
VERSION     CF994398.1  GI:38510458
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 1195)
  AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
  TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Daniela S. Gerhard, Ph.D.
            Office of Cancer Genomics
            National Cancer Institute / NIH
            Bldg. 31 Rm10A07 Bethesda, MD 20892
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Dr. Stefan Hansson
             cDNA Library Preparation: Michael J. Brownstein (NHGRI) with help
            and advice from Piero Carninci (RIKEN)
             cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
             DNA Sequencing by: Agencourt Bioscience Corporation
             Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: NDAM593  row: o  column: 20
            High quality sequence stop: 286.
FEATURES             Location/Qualifiers
     source          1. .1195
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:30520579"
                     /tissue_type="Human Placenta"
                     /lab_host="DH10B TonA"
                     /clone_lib="NIH_MGC_147"
                     /note="Organ: placenta; Vector: pBluescriptR; Site_1:
                     alI-XhoI; Site_2: BamH; Oligo-dT primed using primer
                     5'-TTTTTTTTTTTTTTTTVN-3', size-selected  for average
                     insert size 2.3 kb and normalized to ROT 5. This is a
                     primary library enriched for full-length clones and
                     constructed using  the Cap-trapper method (Carninci, in
                     preparation). Library constructed  by M. Brownstein
                     (NIMH/NHGRI, National Institutes of Health). Note: This is
                     a NIH_MGC library."
ORIGIN

  Query Match            14.0%;  Score 384.2;  DB 14;  Length 1195;
  Best Local Similarity   99.2%;  Pred. No. 7e-64;
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  Matches  386;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         45 CTCCCACGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTG 104

Qy         61 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        105 CTCCCAGGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACT 164

Qy        121 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        165 GTGTCCCTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGG 224

Qy        181 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 240
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Db        225 AAGGGTGGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAG 284

Qy        241 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        285 GAGACAATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTG 344

Qy        301 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGG 360
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||| |
Db        345 ACCCTGTGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACCG 404

Qy        361 GGCCCCGATGAGTCTTTACTGATCTCTCT 389
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Db        405 GGCCCCGATGAGTCGTTACTGATCTCGCT 433


RESULT 13
AK037204
LOCUS       AK037204               1668 bp    mRNA    linear   HTC 19-SEP-2003
DEFINITION  Mus musculus 6 days neonate skin cDNA, RIKEN full-length enriched
            library, clone:A030009K22 product:hypothetical Immunoglobulin
            structure containing protein, full insert sequence.
ACCESSION   AK037204
VERSION     AK037204.1  GI:26332043
KEYWORDS    HTC; CAP trapper.
SOURCE      Mus musculus (house mouse)
  ORGANISM  Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE   1
  AUTHORS   Carninci,P. and Hayashizaki,Y.
  TITLE     High-efficiency full-length cDNA cloning
  JOURNAL   Meth. Enzymol. 303, 19-44 (1999)
  MEDLINE   99279253
   PUBMED   10349636
REFERENCE   2
  AUTHORS   Carninci,P., Shibata,Y., Hayatsu,N., Sugahara,Y., Shibata,K.,
            Itoh,M., Konno,H., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
  TITLE     Normalization and subtraction of cap-trapper-selected cDNAs to
            prepare full-length cDNA libraries for rapid discovery of new genes
  JOURNAL   Genome Res. 10 (10), 1617-1630 (2000)
  MEDLINE   20499374
   PUBMED   11042159
REFERENCE   3
  AUTHORS   Shibata,K., Itoh,M., Aizawa,K., Nagaoka,S., Sasaki,N., Carninci,P.,
            Konno,H., Akiyama,J., Nishi,K., Kitsunai,T., Tashiro,H., Itoh,M.,
            Sumi,N., Ishii,Y., Nakamura,S., Hazama,M., Nishine,T., Harada,A.,
            Yamamoto,R., Matsumoto,H., Sakaguchi,S., Ikegami,T., Kashiwagi,K.,
            Fujiwake,S., Inoue,K., Togawa,Y., Izawa,M., Ohara,E., Watahiki,M.,
            Yoneda,Y., Ishikawa,T., Ozawa,K., Tanaka,T., Matsuura,S., Kawai,J.,
            Okazaki,Y., Muramatsu,M., Inoue,Y., Kira,A. and Hayashizaki,Y.
  TITLE     RIKEN integrated sequence analysis (RISA) system--384-format
            sequencing pipeline with 384 multicapillary sequencer
  JOURNAL   Genome Res. 10 (11), 1757-1771 (2000)
  MEDLINE   20530913
   PUBMED   11076861
REFERENCE   4
  AUTHORS   The RIKEN Genome Exploration Research Group Phase II Team and the
            FANTOM Consortium.
  TITLE     Functional annotation of a full-length mouse cDNA collection
  JOURNAL   Nature 409, 685-690 (2001)
REFERENCE   5
  AUTHORS   The FANTOM Consortium and the RIKEN Genome Exploration Research
            Group Phase I & II Team.
  TITLE     Analysis of the mouse transcriptome based on functional annotation
            of 60,770 full-length cDNAs
  JOURNAL   Nature 420, 563-573 (2002)
REFERENCE   6  (bases 1 to 1668)
  AUTHORS   Adachi,J., Aizawa,K., Akimura,T., Arakawa,T., Bono,H., Carninci,P.,
            Fukuda,S., Furuno,M., Hanagaki,T., Hara,A., Hashizume,W.,
            Hayashida,K., Hayatsu,N., Hiramoto,K., Hiraoka,T., Hirozane,T.,
            Hori,F., Imotani,K., Ishii,Y., Itoh,M., Kagawa,I., Kasukawa,T.,
            Katoh,H., Kawai,J., Kojima,Y., Kondo,S., Konno,H., Kouda,M.,
            Koya,S., Kurihara,C., Matsuyama,T., Miyazaki,A., Murata,M.,
            Nakamura,M., Nishi,K., Nomura,K., Numazaki,R., Ohno,M., Ohsato,N.,
            Okazaki,Y., Saito,R., Saitoh,H., Sakai,C., Sakai,K., Sakazume,N.,
            Sano,H., Sasaki,D., Shibata,K., Shinagawa,A., Shiraki,T.,
            Sogabe,Y., Tagami,M., Tagawa,A., Takahashi,F., Takaku-Akahira,S.,
            Takeda,Y., Tanaka,T., Tomaru,A., Toya,T., Yasunishi,A.,
            Muramatsu,M. and Hayashizaki,Y.
  TITLE     Direct Submission
  JOURNAL   Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of
            Physical and Chemical Research (RIKEN), Laboratory for Genome
            Exploration Research Group, RIKEN Genomic Sciences Center (GSC),
            RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama,
            Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.go.jp,
            URL:http://genome.gsc.riken.go.jp/, Tel:81-45-503-9222,
            Fax:81-45-503-9216)
COMMENT     cDNA library was prepared and sequenced in Mouse Genome
            Encyclopedia Project of Genome Exploration Research Group in Riken
            Genomic Sciences Center and Genome Science Laboratory in RIKEN.
            Division of Experimental Animal Research in Riken contributed to
            prepare mouse tissues.
            Please visit our web site for further details.
            URL:http://genome.gsc.riken.go.jp/
            URL:http://fantom.gsc.riken.go.jp/.
FEATURES             Location/Qualifiers
     source          1. .1668
                     /organism="Mus musculus"
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                     /db_xref="MGI:2401679"
                     /db_xref="taxon:10090"
                     /clone="A030009K22"
                     /tissue_type="skin"
                     /clone_lib="RIKEN full-length enriched mouse cDNA library"
                     /dev_stage="6 days neonate"
     CDS             85. .1200
                     /note="unnamed protein product; hypothetical
                     Immunoglobulin structure containing protein (SCOP|48726,
                     evidence: SCOP)
                     putative"
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                     /db_xref="GI:26332044"
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                     KYWCGIDRLGRDESFEVTLIVFPASPGLHPTVVTAKQGKTGVKAPVFTEVAPAWSTGT
                     SQVPPGISPYAGSSPHTATPARSAGTSQVPPGISPYAGRSPHTATSPHAGSSRPVVWL
                     PLTTPQDSRAVASSVSKPSVSIPMVRMMAPVLILLSLLLAAGLIAFGSHMLRWRKKAW
                     LATETQKNEKVYLETSLPGNGWTTEDSTIDLAVTPECLRNLNPSAVPSPETQNLSQST
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ORIGIN

  Query Match             13.9%;  Score 383;  DB 11;  Length 1668;
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Qy         67 GGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACTGTGTCC 126
              |||||||||||||| |||| ||| |||| ||||| || || ||||| ||||| ||||||
Db        127 GGTTATGAAGCCCTGAAGGGTCCAAAGGAGATCAGTGGATTTGAAGGTGACACCGTGTCC 186

Qy        127 CTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGGAAGGGT 186
              |||| ||| ||||||  |||  || ||  ||| ||| ||||||| |||||| || |||||
Db        187 CTGCGGTGTACCTACGTGGAGAAGATGGAGGAGCACAGGAAGTATTGGTGCCGGCAGGGT 246

Qy        187 GGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAGGAGACA 246
              || |||||  | || ||||||  || ||   |||| ||| |  | ||   |||||||
Db        247 GGCATCCTGGTGTCACGCTGCGGTGACATTGTCTACGCAAATCAGGA---CCAGGAGGTG 303

Qy        247 ATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTGACCCTG 306
              |      |||||| |||||||||| ||||| | ||| |||||||||| | |  |||| | ||
Db        304 ACTCGAGGCAGGATGTCCATCCGAGACAGTCCCCAAGAGCTCTCGATGACCGTGATCATG 363

Qy        307 TGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGGGGCCCC 366
              || |||| |||||| | ||  | ||| |||||||||||||| | || | || ||||| |
Db        364 AGGGACCTTACCCTGAAGGATTCAGGGAAGTACTGGTGTGGGATTGACAGACTGGGCCGC 423

Qy        367 GATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGACCCTGCTGTCCTCCCTCCCCT 426
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Db        424 GATGAGTCTTTTGAGGTTACACTCATTGTCTTTCCAGCTTCTCCTGGTCTCCACCCGACA 483

Qy        427 TCTCCCACCTTCCAGCCTCTGGCTACAACACGCCTGCAGCCCAAGGCAAAAGCTCAGCAA 486
                |||   | |    | ||  |  ||| |  |  |  ||   | |     |  ||
Db        484 GTCGTCACGGCCAA---ACAGGGCAAGACAGGGGTCAAAGCCCCTGTATTCACCGAGGTG 540

Qy        487 ACCCAGCCCCCAGGATTGACTTCTCCTGGGCTCTACCCGGCAGCCACCACAGCCAAGCAG 546
              |||   ||           || |   | ||  ||| | |  | |  ||        |
Db        541 GCCCCAGCCTGGTCTACAGGAACTTCCCAGGTCCCCCCAGGAATCTCTCCATATGCTGGG 600

Qy        547 GGGAAGACAGGGGCTGAGGCCCCTCCATTGCCAGGGACTTCCCAGTACGGGCACGAAAGG 606
              |    |     | | | ||||  |     | |     ||    | |  | |  | | |
Db        601 AGCTCTCCTCACACAGCGACCCCAGCCCGATCTGCAGGAACCTCCCAGGTTCCCCCAGGA 660

Qy        607 ACTTCTCAGTACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCAGGGAGCTCC 666
              |  ||||  ||  | || |  |||||||| ||||||||||||||| ||||||||||||
Db        661 ATCTCTCCATATGCTGGGAGGTCTCCTCACACAGCGACCTCTCCTCATGCAGGGAGCTCC 720

Qy        667 CGCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCTCTCAGCAGT 726
              || ||   | |   |||| |   ||| |  || ||||| |||| | |    |||||||
Db        721 CGTCCAGTCGTCTGGCTGCCCCTTACCACGCCACAGGACTCCAGGGCTGTAGCCAGCAGT 780

Qy        727 GGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCAGTCCTGGTG 786
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Db        781 G---TCTCCAAGCCCAGTGTGTCCATCCCGATGGTCCGCATGATGGCCCCAGTCCTGATA 837

Qy        787 CTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTGCTCCTGTGG 846
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Db        838 CTCTTGTCCCTGCTGTTGGCTGCAGGACTAATTGCCTTTGGCAGCCACATGCTCCGGTGG 897

Qy        847 AGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGGCTCTCACGC 906
              |||||| |||||   | |||||| |||||||||  |||||||||  |||  ||  |  |
Db        898 AGAAAGAAAGCTTGGCTGGCCACAGAGACACAGAAGAACGAGAAGGTCTACCTTGAAACC 957

Qy        907 TTG 909
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Db        958 TCG 960


RESULT 14
CB555008
LOCUS       CB555008                597 bp    mRNA    linear   EST 01-JUN-2003
DEFINITION  MMSP0075_E03 MMSP Macaca mulatta cDNA, mRNA sequence.
ACCESSION   CB555008
VERSION     CB555008.1  GI:31304203
KEYWORDS    EST.
SOURCE      Macaca mulatta (rhesus monkey)
  ORGANISM  Macaca mulatta
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
            Cercopithecinae; Macaca.
REFERENCE   1  (bases 1 to 597)
  AUTHORS   Katze,M.G., Bumgarner,R., Korth,M., Feldman,R., Amjadi,M. and
            Holzman,T.
  TITLE     Expressed sequence tags from Rhesus macaque spleen
  JOURNAL   Unpublished (2002)
COMMENT     Contact: Holzman T
            Katze Lab
            University of Washington
            Box 358070, Seattle, WA 98195-8070, USA
            Tel: 206 732 6156
            Fax: 206 732 6055
            Email: ted@locke.hs.washington.edu
            Similar to GenBank entry BC025395 BC025395 Homo sapiens, similar to
            CMRF35 ANTIGEN PRECURSOR, clone MGC:26887 IMAGE:4827737, mRNA,
            complete cds. 3/2002
            Plate: MMSP0075  row: E  column: 03.
FEATURES             Location/Qualifiers
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                     /sex="male"
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ORIGIN

  Query Match           13.6%;  Score 373.6;  DB 14;  Length 597;
  Best Local Similarity   89.6%;  Pred. No. 9.6e-62;
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Qy       1356 CTCCTGGGCCTCATGCCCAGTGTCGGACCCTGCCTTCCTCCCACTCCAGACCCCACCTTG 1415
              |||||||||||||  |||||||||| |||||||||||||| ||||||||||||||||||
Db          7 CTCCTGGGCCTCAT--CCAGTGTCGGA-CCTGCCTTCCTCCCGCTCCAGACCCCACCTTG 63

Qy       1416 TCTTCCCTCCCTGGCGTCCTCAGACTTAGTCCCACGGTCTCCTGCATCAGCTGGTGATGA 1475
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Db         64 TCCTCCCTCCCTGGCGTCCTCAGACTTAGTCCCACGGTCTCCTGCATCAGCTGGTGATGA 123

Qy       1476 AGAGGAGCATGCTGGGGTGAGACTGGGATTCTGGCTTCTCTTTGAACCACCTGCAT-CCA 1534
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Qy       1535 GCCCTTCAGGAAGCCTGTGAAAAACGTGATTCCTGGCCCCACCAAGACCCACCAAAACCA 1594
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Db        244 TCTCTGGGACTTGGTGCAGGACTCTGAATTTCTAACAATGCCCAGTGACTGTCGCACTTG 303

Qy       1653 AGTTTGAGGGCCAGTGGGCCTGATGAACGCTCACACCCCTTCAGCTTAGAGTCTGCATTT 1712
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Db        304 AGTTTGAGGACCAGCAGGCCTGATGAACGCTCAGACCCCTCCAGCTTAGAGTCTGCATTT 363

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Qy       1829 GCAGG--ATAAGCCCAGGACCGGCACAGAAGTGGTTGCCTTTNCCATTTGCCCTCCCTGG 1886
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Db        484 GCAGGGATTAAGCCCAGGACCAGCCGAGAGTGGTT---GCTTTCCATTCACCCTCCCTGG 540
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Qy       1887 NCCATGCCTTCTTGCCTTTGGAAAAAATGATGAAGAAAACCTTGGCTCCTTCCTTGTCT 1945
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RESULT 15
AK052816
LOCUS AK052816 1749 bp mRNA linear HTC 20-SEP-2003
DEFINITION Mus musculus 10 days lactation, adult female mammary gland cDNA, RIKEN full-length enriched library, clone:D730030D15 product:hypothetical Immunoglobulin structure containing protein, full insert sequence.
ACCESSION AK052816
VERSION AK052816.1 GI:26343002
KEYWORDS HTC; CAP trapper.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1
AUTHORS Carninci,P. and Hayashizaki,Y.
TITLE High-efficiency full-length cDNA cloning
JOURNAL Meth. Enzymol. 303, 19-44 (1999)
MEDLINE 99279253
PUBMED 10349636
REFERENCE 2
AUTHORS Carninci,P., Shibata,Y., Hayatsu,N., Sugahara,Y., Shibata,K., Itoh,M., Konno,H., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
TITLE Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes
JOURNAL Genome Res. 10 (10), 1617-1630 (2000)
MEDLINE 20499374
PUBMED 11042159
REFERENCE 3
AUTHORS Shibata,K., Itoh,M., Aizawa,K., Nagaoka,S., Sasaki,N., Carninci,P., Konno,H., Akiyama,J., Nishi,K., Kitsunai,T., Tashiro,H., Itoh,M., Sumi,N., Ishii,Y., Nakamura,S., Hazama,M., Nishine,T., Harada,A., Yamamoto,R., Matsumoto,H., Sakaguchi,S., Ikegami,T., Kashiwagi,K., Fujiwake,S., Inoue,K., Togawa,Y., Izawa,M., Ohara,E., Watahiki,M., Yoneda,Y., Ishikawa,T., Ozawa,K., Tanaka,T., Matsuura,S., Kawai,J., Okazaki,Y., Muramatsu,M., Inoue,Y., Kira,A. and Hayashizaki,Y.
TITLE RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer
JOURNAL Genome Res. 10 (11), 1757-1771 (2000)
MEDLINE 20530913
PUBMED 11076861
REFERENCE 4
AUTHORS The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium.
TITLE Functional annotation of a full-length mouse cDNA collection
JOURNAL Nature 409, 685-690 (2001)
REFERENCE 5
AUTHORS The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
TITLE Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
JOURNAL Nature 420, 563-573 (2002)
REFERENCE 6 (bases 1 to 1749)
AUTHORS Adachi,J., Aizawa,K., Akimura,T., Arakawa,T., Bono,H., Carninci,P., Fukuda,S., Furuno,M., Hanagaki,T., Hara,A., Hashizume,W., Hayashida,K., Hayatsu,N., Hiramoto,K., Hiraoka,T., Hirozane,T., Hori,F., Imotani,K., Ishii,Y., Itoh,M., Kagawa,I., Kasukawa,T., Katoh,H., Kawai,J., Kojima,Y., Kondo,S., Konno,H., Kouda,M., Koya,S., Kurihara,C., Matsuyama,T., Miyazaki,A., Murata,M., Nakamura,M., Nishi,K., Nomura,K., Numazaki,R., Ohno,M., Ohsato,N., Okazaki,Y., Saito,R., Saitoh,H., Sakai,C., Sakai,K., Sakazume,N., Sano,H., Sasaki,D., Shibata,K., Shinagawa,A., Shiraki,T., Sogabe,Y., Tagami,M., Tagawa,A., Takahashi,F., Takaku-Akahira,S., Takeda,Y., Tanaka,T., Tomaru,A., Toya,T., Yasunishi,A., Muramatsu,M. and Hayashizaki,Y.
TITLE Direct Submission
JOURNAL Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.go.jp, URL:http://genome.gsc.riken.go.jp/, Tel:81-45-503-9222, Fax:81-45-503-9216)
COMMENT cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.
Please visit our web site for further details.
URL:http://genome.gsc.riken.go.jp/
URL:http://fantom.gsc.riken.go.jp/.
FEATURES Location/Qualifiers
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/db_xref="MGI:2422920"
/db_xref="taxon:10090"
/clone="D730030D15"
/sex="female"
/tissue_type="mammary gland"
/clone_lib="RIKEN full-length enriched mouse cDNA library"
/dev_stage="10 days lactation, adult"
CDS 28. .1275
/note="unnamed protein product; hypothetical Immunoglobulin structure containing protein (SCOP|48726, evidence: SCOP)
putative"
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/db_xref="GI:26343003"
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polyA_signal 1726. .1731
/note="putative"
polyA_site 1749
/note="putative"
ORIGIN

Query Match 13.2%; Score 361.6; DB 11; Length 1749;
Best Local Similarity 65.7%; Pred. No. 1.5e-59;
Matches 678; Conservative 0; Mismatches 219; Indels 135; Gaps 5;

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Qy          7 CGGTGTCCAGCGCCCAGAATGCGGCTTCTGGTCCTGCTATGGGGTTGCCTGCTGCTCCCA 66
              | ||||||||| ||||  ||| ||| |||||||||||||||||  |||||| ||||||||
Db         10 CAGTGTCCAGCACCCACCATGAGGCCTCTGGTCCTGCTATGGGACTGCCTGGTGCTCCCA 69

Qy         67 GGTTATGAAGCCCTGGAGGGCCCAGAGGAAATCAGCGGGTTCGAAGGGGACACTGTGTCC 126
              |||||||||||||||| |||| ||| |||| ||||| || || ||||| ||||| ||||||
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Qy        127 CTGCAGTGCACCTACAGGGAAGAGCTGAGGGACCACCGGAAGTACTGGTGCAGGAAGGGT 186
              |||| ||| ||||||  |||  || ||| ||| ||| ||||||| |||||| || |||||
Db        130 CTGCGGTGTACCTACGTGGAGAAGATGAAGGAGCACAGGAAGTATTGGTGCCGGCAGGGT 189

Qy        187 GGGATCCTCTTCTCTCGCTGCTCTGGCACCATCTATGCAGAAGAAGAAGGCCAGGAGACA 246
              || |||||  | || ||||||  || ||   |||| ||| |  | ||   |||||||
Db        190 GGCATCCTGGTGTCACGCTGCGGTGACATTGTCTACGCAAATCAGGA---CCAGGAGGTG 246

Qy        247 ATGAAGGGCAGGGTGTCCATCCGTGACAGCCGCCAGGAGCTCTCGCTCATTGTGACCCTG 306
              |      |||||| |||||||||| ||||| | ||| |||||||||| | |  |||| | ||
Db        247 ACTCGAGGCAGGATGTCCATCCGAGACAGTCCCCAAGAGCTCTCGATGACCGTGATCATG 306
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Qy        307 TGGAACCTCACCCTGCAAGACGCTGGGGAGTACTGGTGTGGGGTCGAAAAACGGGGCCCC 366
              || |||| |||||| | ||  | ||| ||||||||||||||| | || | || ||||| |
Db        307 AGGGACCTTACCCTGAAGGATTCAGGGAAGTACTGGTGTGGGATTGACAGACTGGGCCGC 366

Qy        367 GATGAGTCTTTACTGATCTCTCTGTTCGTCTTTCCAGGA---------------------- 405
              ||||||||||    | |  | ||  | ||||||||||
Db        367 GATGAGTCTTTTGAGGTTACACTCATTGTCTTTCCAGGAAAAAGGGACAATGCTGTCCCT 426

Qy        406 ------CCCTGCTGTCCTCCCTCCCCTTCTCCCACCTTCCAGCCTCT---GGCTACAACA 456
                   |||||||||| | |||||  | ||| ||||||||||||     ||||||
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Qy        457 CGCCTGCAGCCCAAGGCAAAAGCTCAGCAAACCCAGCCCCCAGGATTGACTTCTCCTGGG 516
              ||||||||||||||||||||||    ||| || |||| ||||| |  ||||||||||||
Db        487 AGCCTGCAGCCCAAGGCAAAAGCCTGGCAGACTCAGCTCCCAGAACCGACTTCTCCTGGT 546

Qy        517 CTCTACCCGGCAGCCACCACAGCCAAGCAGGGGAAGACAGGGGCTGAGGCCCCTCCATTG 576
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Qy        577 CCAGGGACTTCCCAGTACGGGCACGAAAGGACTTCTCAG---------------------- 615
              | | |    |||    | ||     | | ||||| |||
Db        607 ACCGAGGTGGCCCCAGCCTGGTCTACAGGAACTTCCCAGGTCCCCCCAGGAATCTCTCCA 666

Qy        616 ------------------------------------------------------------ 615

Db        667 TATGCTGGGAGCTCTCCTCACACAGCGACCCCAGCCCGATCTGCAGGAACCTCCCAGGTT 726

Qy        616 ------------------TACACAGGAACCTCTCCTCACCCAGCGACCTCTCCTCCTGCA 657
                               ||  | || |  ||||||||| |||||||||||||| ||||
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Qy        658 GGGAGCTCCCGCCCCCCCATGCAGCTGGACTCCACCTCAGCAGAGGACACCAGTCCAGCT 717
              |||||||||||  ||   | |   ||||  |   ||| |  || ||||| ||||  | |
Db        787 GGGAGCTCCCGTCCAGTCGTCTGGCTGCCCCTTACCACGCCACAGGACTCCAGGGCTGTA 846

Qy        718 CTCAGCAGTGGCAGCTCTAAGCCCAGGGTGTCCATCCCGATGGTCCGCATACTGGCCCCA 777
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Db        847 GCCAGCAGTG---TCTCCAAGCCCAGTGTGTCCATCCCGATGGTCCGCATGATGGCCCCA 903

Qy        778 GTCCTGGTGCTGCTGAGCCTTCTGTCAGCCGCAGGCCTGATCGCCTTCTGCAGCCACCTG 837
              |||||| | ||   ||  ||| ||||  || ||||| || || |||||  |||||||| ||
Db        904 GTCCTGATACTCTTGTCCCTGCTGTTGGCTGCAGGACTAATTGCCTTTGGCAGCCACATG 963

Qy        838 CTCCTGTGGAGAAAGGAAGCTCAACAGGCCACGGAGACACAGAGGAACGAGAAGTTCTGG 897
              |||| |||||||||| |||||   | |||||| |||||||||| |||||||||| |||
Db        964 CTCCGGTGGAGAAAGAAAGCTTGGCTGGCCACAGAGACACAGAAGAACGAGAAGGTCTAC 1023

Qy        898 CTCTCACGCTTG 909
              ||   |  || |
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Search completed: September 13, 2004, 19:20:20
Job time : 6334 secs